

*Flat Rock
Community High School*



Curriculum Guide 2014-2015

TABLE OF CONTENTS

Mission Statements	4
Purpose of the Catalog	5
Policies	5
Career Pathways	6
High School Four-Year Plan	12
College Planning	13
On-Line Courses & Advanced Placement	14
Dual Enrollment Information	15
Requirements for Graduation	16
Course Selections by Grade	17
English Language Curriculum	21
Foreign Language Curriculum	24
Social Studies Curriculum	26
Mathematics Curriculum	28
Science Curriculum	31
Business Education Curriculum	33
Technology Curriculum	34
Experiential Learning Opportunities	35
Art Curriculum	36
Music Curriculum	37
Industrial Education Curriculum	38
Physical Education & Health Curriculum	41
Downriver Career Technical Consortium Statement of Compliance	42
Career & Technical Education Guidelines & Course Descriptions	43

FLAT ROCK COMMUNITY SCHOOLS

Vision Statement

Flat Rock Community Schools will provide the programs necessary to develop the appropriate degree of academic proficiency, emotional development, social awareness and character for all students to become innovators and leaders in a competitive global society.

Mission Statement

The Mission of the Flat Rock Community Schools is to provide quality educational programs, resources and the collaboration of support services for all community members, enabling them to be competent, informed and involved citizens in an ever-changing society.

Belief Statement

- That all students have inherent worth and are capable of learning.
- That all students are entitled to a safe, positive learning environment.
- That all decisions be made in the best interest of student learning.
- That student learning is enhanced when there is a united effort and positive communication among home, school and community.
- That all students are entitled to an atmosphere where they are free to make and learn from their mistakes.
- That technology is an integral part of learning.
- That all students deserve to be appreciated and respected.
- That all students are expected to meet high academic standards.
- That curriculum, instruction, assessment and appropriate academic interventions must be aligned with high standards.
- That teaching research based best practices improve student learning.

Goals

1. All students will perform at, or above grade level in Reading.
2. All students will perform at, or above grade level in Writing.
3. All students will perform at, or above grade level in Mathematics.

FLAT ROCK COMMUNITY HIGH SCHOOL

Vision Statement

Flat Rock Community High School will be a school of excellence where we will develop the appropriate degree of student academic proficiency and social skills to enable them to be responsible, independent and contributing members of society who will be able to successfully adapt to the future challenges of an ever changing world.

Mission Statement

In order to provide equal learning opportunities for an increasingly diverse population, Flat Rock Community High School pledges:

- To encourage and develop creative problem solvers.
- To create lifelong learners who will become contributing members of society.
- To maintain a safe learning environment adaptable to student needs.
- To foster personal, academic and technological literacy development.

This will ensure that students are able to effectively participate in a democratic society and utilize their knowledge as they enter an ever-changing world.

Belief Statement

- That all students have inherent worth and are capable of learning.
- That we should provide a safe environment conducive to a positive learning atmosphere.
- That all decisions be made in the best interest of student learning.
- That positive and engaging teachers are key to fostering excellence.
- That students must learn to be independent thinkers, resulting from their active engagement in rigorous and relevant learning.
- That student learning is enhanced when there is a united effort and positive communication among home, school and community

PURPOSE OF THIS CATALOG

This catalog is designed to assist the student in selecting the pathway and particular courses, which will best fit their individual needs. The selection of courses involves knowledge of all the courses offered at Flat Rock Community High School and some degree of understanding of what is taught in each course. This catalog will give a general description of each subject available at Flat Rock Community High School.

The selection of pathway and courses is one of the most important joint functions of the school and the home. Each student is encouraged to discuss their course selection with his/her parents and counselor prior to final selection. All individual student class selections will be completed before the end of the school year. Every attempt will be made to avoid schedule conflicts.

CREDIT RECOVERY

Credits can be made up in the following manner: Online Courses through the use of a school supported online learning program or in Summer session. See the counseling office for additional information.

SEMESTER SCHEDULE FOR 2014-2015

The semester system divides the school year into two eighteen week periods. At FRCHS, students will take seven classes 52 minutes in length. Each session is worth ½ credit. This schedule gives students 7 credits possible each year.

CHANGE OF SCHEDULE

Schedule changes will not be made unless it is felt to be in the best interest of the student and will be made only after careful consideration with counselors and parents.

Schedule changes will only be made if:

1. Class has been taken and passed (including summer school).
2. Required class for graduation was failed and must be retaken.
3. A twelfth grade student is deficient in required credits and must drop an elective.
4. Doctor's excuse from the physical education program.
6. Special Education adjustments (Determined by the IEP).
7. Class is not in proper course sequence.
8. Student is requesting a more difficult course.

Note: Since schedule changes represent a significant academic disruption for both the student and the staff, FRCHS strongly recommends that any changes be initiated either before school/semester starts or within the first week of each semester.

CAREER PATHWAYS

Career Pathways are broad groupings of careers that share similar characteristics and whose employment requirements call for many common interests, strengths and competencies. As students select courses and develop their high school four year plans, consideration should be given to career goals. Please refer to the following pages as a career pathways guide.



Arts & Communication

The Arts & Communication pathway includes careers related to the humanities and performing, visual, literacy, and media arts. Consider the following as you determine your pathway.

Interests	Skills	Abilities
<ul style="list-style-type: none"> • Being artistic • Speaking in front of others • Working with designs • Frequenting movies, theater, concerts and art museums • Being self-expressive • Working with patterns • Creating things • Focusing on projects • Being flexible • Using imagination • Working with people • Helping others • Writing 	<ul style="list-style-type: none"> • Creating approaches to problems • Motivating others • Analyzing needs • Changing things to achieve goals • Imagining how things should work • Gathering and organizing information • Talking to others effectively • Being aware of others' reactions • Evaluating ideas • Writing • Planning • Managing time effectively • Listening to others 	<ul style="list-style-type: none"> • Coming up with unusual or clever ideas • Speaking clearly • Communicating written ideas clearly • Communicating verbally in a clear manner • Imagining how something will look after it is rearranged • Reading and understanding written information • Originating numerous ideas on a topic • Recalling information • Distinguishing differences between colors, shades and brightness • Coordinating body movements • Recognizing special relationships • Seeing details of objects • Arranging things or actions

Some Possible related career choices for the Arts & Communication Pathway are:		Related Courses by Department	
<ul style="list-style-type: none"> • Actor • Animator • Artist • Art Director • Audio-Visual Technician • Broadcaster • Caption Writer • Choreographer • Columnist • Communications Manager • Custom Tailor • Dancer • Editor • Fashion Designer • Film Editor • Floral Designer • Graphic Artist • Interior Designer • Interpreter 	<ul style="list-style-type: none"> • Jeweler • Journalist • Model • Musician • Painter/Illustrator • Patient Relations • Photographer • Photographic Restorer • Potter • Producer • Program Director • Public Relations Specialist • Radio Intelligence Operator • Radio/TV Newscaster • Sculptor • Sketch Artist • Talent Director • Writer 	<p><u>English Language Arts</u> English 9 English 10 English 11 World Literature Literature Survey Multi Genre Writing</p> <p><u>Science</u> Biology Physical Science Chemistry</p> <p><u>Mathematics</u> Algebra I Geometry Algebra II</p> <p><u>Social Studies</u> World History United States History Government/Economics History Through Literature</p>	<p><u>Foreign Languages</u> Spanish French German</p> <p><u>ART</u> Art Survey Drawing and Painting Visual Journal-Printmaking Mixed Media Graphic Novel/Photography Sculpture Hand-Building Wheel-Hand-Building Sculpture and Mosaics</p> <p><u>MUSIC</u> Band/Color Guard</p> <p><u>CTE Courses</u> Graphic Arts Video & Applied Communication Cosmetology</p>

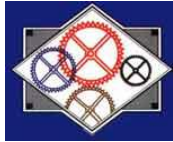


Business Management, Marketing & Technology

The Business, Management, Marketing, and Technology pathway includes careers related to the business environment including computer/information systems, business ownership, economics, marketing, sales, finance, office administration, personnel, and hospitality/tourism management. Consider the following as you determine your pathway.

Interests	Skills	Abilities
<ul style="list-style-type: none"> • Following procedures • Working with people and data • Following a set routine • Being detail-oriented • Starting up projects • Persuading and leading others • Taking risks, being visionary • Searching for facts and figuring out problems • Communicating with others • Helping others • Making decisions 	<ul style="list-style-type: none"> • Using math to solve problems • Gathering and organizing information • Determining how changes affect outcomes in operations • Identifying the nature of problems • Understanding written sentences • Weighing costs and benefits of actions • Determine how money will be spent • Accounting for expenditures • Thinking critically • Evaluating outcomes to redirect efforts • Structuring and classifying information • Managing time effectively 	<ul style="list-style-type: none"> • Adding, subtracting, multiplying and dividing quickly and correctly • Reading and understanding information and presenting ideas • Communicating information and ideas clearly • Seeing details of objects at close range • Organizing problems and selecting methods or formula to solve them • Applying general rules to specific problems to generate solutions • Managing and leading coworkers • Developing numerous ideas on topics • Figuring out problems • Listening to and understanding others • Developing an image of how a system works under ideal conditions • Originating unusual or clever ideas • Speaking clearly in front of others

Some Possible related career choices for the Arts & Communication Pathway are:		Related Courses by Department	
<ul style="list-style-type: none"> • Accountant • Actuary • Administrator • Assessor • Bank Teller • Bookkeeper • Budget Analyst • Business Agent • Cashier • Computer Programmer • Court Reporter • Credit Manager • Data Recovery Planner • Estimator • Financial Manager • General Manager • Hotel Manager • Importer/Exporter • Instructional Coordinator 	<ul style="list-style-type: none"> • Intelligence Officer • Legal Secretary • Manufacturer's Representative • Market Researcher • Medical Transcriptionist • New Accounts Clerk • Order Clerk • Postal Mail Carrier • Purchasing Agent • Realtor • Retail Sales Manager • Restaurant Manager • Secretary • Tax Examiner • Training Coordinator • Travel Agent • Underwriter • Wholesale Buyer 	<p>English Language Arts</p> <p>English 9 English 10 English 11 World Literature Speech Literature Survey Multi Genre Writing</p> <p>Science</p> <p>Biology Physical Science Chemistry</p> <p>Mathematics</p> <p>Algebra I Geometry Algebra II Pre-Calculus Calculus Elementary Statistics Financial Literacy</p>	<p>Social Studies</p> <p>World History United States History Government/Economics</p> <p>Foreign Languages</p> <p>Spanish French German</p> <p>Business</p> <p>Computers I Computers II</p> <p>CTE Courses</p> <p>Business Services & Technology CISCO Networking Graphic Communications Hospitality Video & Applied Communications</p>



Engineering, Manufacturing & Industrial Technology

The Engineering/Manufacturing and Industrial Technology pathway encompasses careers associated with the design, development, production, installation and maintenance of products or physical systems. Consider the following as you determine your pathway.

Interests	Skills	Abilities
<ul style="list-style-type: none"> Judging things by yourself Being self-expressive Working with data/details Following set procedures Working with hands and/or tools and machines Working with forms, designs and patterns Searching for facts Figuring out problems Starting up projects Persuading others Making decisions Taking risks Thinking things through 	<ul style="list-style-type: none"> Using math to solve problems Writing Gathering and organizing information Using known methods to solve things Understanding written sentences Motivating, developing and directing people Identifying the nature of problems Developing and implementing ideas Determining an operating error and fixing it Listening to others Talking to others effectively Thinking critically Installing equipment, machines and writing as needed 	<ul style="list-style-type: none"> Communicating ideas verbally Seeing details of objects Grasping or assembling objects Communicating written ideas clearly Adding, subtracting, multiplying and dividing quickly and correctly Applying rules to problems to get solutions Speaking clearly Following given rules to arrange things Imagining how something will look after it is rearranged Creating unusual or clever ideas Originating numerous ideas Listening to and understanding others Combining information to form conclusions

Some Possible related career choices for the Arts & Communication Pathway are:		Related Courses by Department	
<ul style="list-style-type: none"> Aerospace Engineer Architect Artillery Officer Automobile Mechanic Brick Mason Boiler Operator Bookbinder Carpenter Carpet Installer Chemical Engineer Civil Engineer Drafter Drywall Installer Electrical Engineer Electrician Elevator Repairer Furnace Operator Geographer Glazier Heating & Cooling Mechanic Industrial Engineer 	<ul style="list-style-type: none"> Inspector Job Printer Laboratory Tester Landscape Architect Machinist Marine Engineer Mechanical Engineer Motorcycle Mechanic Naval Architect Nuclear Engineer Oil Well Driller Printing Press Operator Railroad Conductor Robotics Technician Surveyor Telephone Technician Typesetter Tool & Die Maker Upholsterer Welder 	<p><u>English Language Arts</u></p> <p>English 9 English 10 English 11 World Literature Speech Literature Survey Multi Genre Writing</p> <p><u>Science</u></p> <p>Biology Physical Science Chemistry Physics</p> <p><u>Mathematics</u></p> <p>Algebra I Geometry Algebra II Pre-Calculus Calculus Elementary Statistics Financial Literacy</p> <p><u>Social Studies</u></p> <p>World History United States History Government/Economics</p> <p><u>Foreign Languages</u></p> <p>Spanish French German</p>	<p><u>Industrial Education</u></p> <p>Basic Drafting & Design Basic CAD Advanced CAD I and II Woods Tech/Manufacturing Homeowner's Technology Exterior and Advanced Furniture Production Business Technology</p> <p><u>CTE Courses</u></p> <p>Architectural Drafting & CAD Auto Collision Repair Automotive Services Technology Aviation Technology Construction Trades Construction Building and Maintenance Drafting and Design Engineering Drafting Furniture and Cabinet Making Heating Ventilation and Cooling Machine Trades Technical Training Lab Welding</p>



Health Sciences

The Health Sciences pathway encompasses careers related to the promotion of health and treatment of injury and disease. This area would be of interest to people who are interested in how the body works and who care about the well being of people and animals. Consider the following as you determine your pathway.

Interests	Skills	Abilities
<ul style="list-style-type: none"> Working with others Communicating Giving advice Helping others Working with hands and/or tools and machines Healing people, plants and/or animals Searching for the facts Working with ideas Figuring out problems Paying attention to detail 	<ul style="list-style-type: none"> Talking to others clearly Looking for ways to help others Thinking critically Listening to others Operating and monitoring equipment Determining tools to use in certain situations Organizing information Being aware of other's reactions Being coordinated Identifying the nature of problems Weighing costs and benefits of actions 	<ul style="list-style-type: none"> Exerting the strength to lift, pull, push or carry Reading and understanding information Communicating clearly Listening to and understanding others Having steady hands while making arm movements Seeing details at close range Making sense of information Combining and organizing information Applying general rules to specific situations to generate solutions Making adjustments when controlling machines or tools

Some Possible related career choices for the Arts & Communication Pathway are:		Related Courses by Department	
<ul style="list-style-type: none"> Athletic Trainer Audiologist Bilingual Social Worker Biochemist Biomedical Engineer Cardiology Technologist Chiropractor Cytotechnologist Dental Hygienist Dentist Dialysis Technician Dietician Embalmer Emergency Medical Technician Histologic Technician Home Health Aide Industrial Hygienist Medical Assistant Nuclear Medicine Technologist Nurse Nurse Aide 	<ul style="list-style-type: none"> Nutritionist Occupational Therapist Optician Optometrist Oral Surgeon Orderly Pharmacist Pharmacy Assistant Physical Therapist Physician Physician's Assistant Psychiatrist Radiation Technologist Respiratory Therapist Speech Pathologist Surgeon Veterinarian Veterinarian's Assistant Zoologist 	<p><u>English Language</u></p> <p><u>Arts</u></p> <p>English 9</p> <p>English 10</p> <p>English 11</p> <p>World Literature</p> <p>Speech</p> <p>Literature Survey</p> <p>Multi Genre Writing</p> <p><u>Science</u></p> <p>Biology</p> <p>Physical Science</p> <p>Chemistry</p> <p>Physics</p> <p>Human Physiology</p> <p><u>Mathematics</u></p> <p>Algebra I</p> <p>Geometry</p> <p>Algebra II</p> <p>Pre-Calculus</p> <p>Calculus</p> <p>Elementary Statistics</p> <p>Financial Literacy</p>	<p><u>Social Studies</u></p> <p>World History</p> <p>United States History</p> <p>Government/Economics</p> <p><u>Foreign Languages</u></p> <p>Spanish</p> <p>French</p> <p>German</p> <p><u>Life Skills</u></p> <p>Nutrition</p> <p>Child Development</p> <p><u>Health & Physical Education</u></p> <p>Health</p> <p>Sports & Fitness</p> <p>Team Sports</p> <p>Weight Lifting</p> <p><u>CTE Courses</u></p> <p>Dental Occupations</p> <p>EMT and Criminal Justice</p> <p>Health Occupations</p>



Human Services

The Human Services pathway encompasses careers related to childcare, civil service, education, and the social services. These may include law and legal studies, public administration, child and family services, education, government, law enforcement, leisure and recreation, military, religion, social services, and personal services. Consider the following as you determine your pathway.

Interests	Skills	Abilities
<ul style="list-style-type: none"> Working with others Communicating Explaining how to do things Giving advice Helping others Working with hands and/or tools and machines Persuading others Leading people Working with ideas Taking risks Searching for facts and figuring out problems Starting up projects 	<ul style="list-style-type: none"> Learning or teaching in various manners Teaching others Listening to others Weighing costs and benefits of actions Being aware of others' reactions Looking for ways to help people Writing Identifying the nature of problems Persuading others to take different approaches Talking to others effectively Thinking critically 	<ul style="list-style-type: none"> Conveying ideas verbally Responding quickly Communicating written ideas clearly Combining information to form conclusions Knowing when something is wrong or is likely to go wrong Speaking clearly Comprehending information Seeing details at a distance Imagining how something will look after it is rearranged Explaining why unrelated events occur together Recognizing problems Making decisions

Some Possible related career choices for the Arts & Communication Pathway are:		Related Courses by Department	
<ul style="list-style-type: none"> Anthropologist Archivist Baker Barber Chef Cosmetologist Coach Child Care Worker Clergy Correctional Officer Custodian Dietician Detective Economist Flight Attendant Fire Fighter Funeral Director Guide Housekeeper Intelligence Specialist Judge 	<ul style="list-style-type: none"> Kitchen Helper Lawyer Librarian Lobbyist Masseur/Masseuse Nail Technician Police Officer Political Scientist Private Investigator Psychologist Recreation Worker Sociologist Social Director Social Worker Tank Crew Member Teacher Urban Planner Usher Vocational Counselor Waiter/Waitress 	<p>English Language Arts</p> <p>English 9 English 10 English 11 World Literature Speech Literature Survey Multi Genre Writing</p> <p>Science</p> <p>Biology Physical Science Chemistry Physics Human Physiology</p> <p>Mathematics</p> <p>Algebra I Geometry Algebra II Pre-Calculus Calculus Elementary Statistics Financial Literacy</p>	<p>Social Studies</p> <p>World History United States History Government/Economics History of War History of Injustice</p> <p>Foreign Languages</p> <p>Spanish French German</p> <p>Health & Physical Education</p> <p>Health Sports & Fitness Team Sports Weight Lifting</p> <p>CTE Courses</p> <p>Child Care Pre-School Teacher Cadet Cosmetology EMT and Criminal Justice Hospitality</p>



Natural Resources and Agriscience

The Natural Resources & Agriscience pathway encompasses careers related to agriculture, the environment, and natural resources. These may include agricultural sciences, earth sciences, environmental sciences, fisheries management, forestry, horticulture, wildlife management, and many agribusiness and agro-industrial occupations. Consider the following as you determine your pathway.

Interests	Skills	Abilities
<ul style="list-style-type: none"> • Enjoying nature • Searching for facts • Figuring out problems • Working with things/objects • Communicating with others • Explaining things to others • Working with hands and/or tools and machines • Helping others and the environment • Giving advice • Working with ideas • Working outdoors • 	<ul style="list-style-type: none"> • Using known methods to solve problems • Understanding written sentences • Gathering and organizing information • Talking to others clearly • Looking for ways to help others • Identifying the nature of problems • Determining the equipment needed for a job • Maintaining equipment as needed • Identifying essential information • Thinking critically • Listening to others 	<ul style="list-style-type: none"> • Listening to and understanding information presented by others • Speaking clearly • Communicating ideas so others will understand • Reading and understanding written information • Communicating written ideas clearly • Predicting when something is wrong or may go wrong • Combining information to form conclusions • Making sense of information • Applying rules to specific problems to come up with solutions • Following given rules to arrange things • Seeing details of objects

Some Possible related career choices for the Arts & Communication Pathway are:		Related Courses by Department	
<ul style="list-style-type: none"> • Agricultural Engineer • Agronomist • Anatomist • Animal Caretaker • Animal Trainer • Archeologist • Astronomer • Biochemist • Biological Scientist • Botanist • Conservation Scientist • Diver • Environmental Analyst • Farmer • Fish and Game Warden • Forestry Technician • Gardener • Geneticist • Geologist • Geographer • Geophysicist 	<ul style="list-style-type: none"> • Groundskeeper • Health Inspector • Horticulturist • Hunter/Trapper • Inspector of Agriculture • Livestock Worker • Logger • Marine Biologist • Meteorologist • Nursery Worker • Oceanographer • Park Ranger • Pest Controller • Physicist • Physiologist • Recreation Worker • Soil Conservationist • Toxicologist • Wildlife Conservationist • Weather Observer • Zoo Keeper 	<p><u>English Language Arts</u> English 9 English 10 English 11 World Literature Speech Literature Survey Multi Genre Writing</p> <p><u>Science</u> Biology Physical Science Chemistry Physics Environmental Awareness Human Physiology</p> <p><u>Mathematics</u> Algebra I Geometry Algebra II Pre-Calculus Calculus Elementary Statistics Financial Literacy</p>	<p><u>Social Studies</u> World History United States History Government/Economics</p> <p><u>Foreign Languages</u> Spanish French German</p> <p><u>Health & Physical Education</u> Health Sports & Fitness Team Sports Weight Lifting</p> <p><u>CTE Courses</u> Architectural Drafting & CAD Auto Collision Repair Automotive Services Technology Construction Trades Construction Building and Maintenance Drafting and Design Engineering Drafting Furniture and Cabinet Making Machine Trades Welding</p>

HIGH SCHOOL FOUR-YEAR PLAN

Goals are essential to planning your career. They serve like a road map, giving you a destination and a route. There is no better time to plan for your future than now. To help you along the way, complete the four-year high school plan below. List courses you have already taken so that you can view your progress; and include electives that support your career pathway you plan to take in the future. Completing this four year plan now will assist you in creating/updating your web based EDP in the future. Although many required courses are listed here, this is not intended to be an all inclusive graduation requirements plan. Please check requirements for your year of graduation on the previous pages.

9th Grade	
Classes To Take	Opportunities to Take Advantage Of
English 9	<ul style="list-style-type: none"> ● Update Web Based EDP
United States History	<ul style="list-style-type: none"> ● Career Exploration
Mathematics	<ul style="list-style-type: none"> ● Explore Job Shadow Opportunities
Science (Biology)	<ul style="list-style-type: none"> ● Consider Community Service
Health/Phys Ed	<ul style="list-style-type: none"> ● Plan an Individual Consultation with Counselors
Electives & Alternates:	<ul style="list-style-type: none"> ● Attend After School Study Hall in Library
10th Grade	
Classes To Take	Opportunities to Take Advantage Of
English 10	<ul style="list-style-type: none"> ● Update Web Based EDP
Mathematics	<ul style="list-style-type: none"> ● Check out DCTC Options for 11th Grade
Science (Physical Science)	<ul style="list-style-type: none"> ● Apply to Job Shadow/Career Exposures Program
Government/Economics	<ul style="list-style-type: none"> ● Individual Consultation with Counselors
Electives & Alternates:	<ul style="list-style-type: none"> ● Take the PLAN and PSAT Tests
	<ul style="list-style-type: none"> ● Attend After School Study Hall in Library
11th Grade	
Classes To Take	Opportunities to Take Advantage Of
English 11	<ul style="list-style-type: none"> ● Update Web Based EDP
Mathematics	<ul style="list-style-type: none"> ● Explore DCTC Career & Technical Education
Science (Chemistry, Physics)	<ul style="list-style-type: none"> ● Job Shadow/Community Service Opportunities
Government/Economics	<ul style="list-style-type: none"> ● Individual Consultation with Counselors
Electives & Alternates:	<ul style="list-style-type: none"> ● Take the PSAT (Fall) and ACT/MME (Spring)
	<ul style="list-style-type: none"> ● Take the MME Spring required for all Juniors
	<ul style="list-style-type: none"> ● College Search & Plan Visits
	<ul style="list-style-type: none"> ● Explore Dual Enrollment Options
	<ul style="list-style-type: none"> ● Attend After School Study Hall in Library
12th Grade	
Classes To Take	Opportunities to Take Advantage Of
English	<ul style="list-style-type: none"> ● Explore Dual Enrollment Opportunities
Mathematics	<ul style="list-style-type: none"> ● Job Shadow/Community Service Opportunities
Electives & Alternates:	<ul style="list-style-type: none"> ● Individual Consultation with Counselors
	<ul style="list-style-type: none"> ● Re-Take the ACT (Fall) to improve your score
	<ul style="list-style-type: none"> ● Plan College Visits—follow school attendance policy
	<ul style="list-style-type: none"> ● Apply to Colleges Early—By October 31st
	<ul style="list-style-type: none"> ● Attend Financial Aid Night—January
	<ul style="list-style-type: none"> ● Apply for Scholarships & Financial Aid—January
	<ul style="list-style-type: none"> ● Attend After School Study Hall in Library

COLLEGE PLANNING

Not sure how to choose a college? You might find it difficult so separate what you want from where your friends will be attending; or even from the desire to get away from home. Use this questionnaire (prepared by the Michigan College Guide, spring, 2008) to determine the living and learning environments best for you.

1. Consider your career goals. Will an associate's degree from a community college achieve these goals, or will you attend a four-year college/university?
2. A liberal arts education imparts general knowledge in a wide range of subjects, with an emphasis in one or two areas of study. A professional, technical, or vocational curriculum focuses on preparing students solely for a specific career. Which type of curriculum will best help you to reach your post-college goals?
3. Small colleges offer more intimate classroom settings, while large schools often have a greater selection of academic and extracurricular programs. On what size campus would you feel most comfortable?
 - Very small (fewer than 1,000)
 - Small (1,000-3,999)
 - Medium (4,000-8,999)
 - Large (9,000-19,999)
 - Very Large (20,000+)
4. Do you plan to live on campus or commute?
5. What distance from home is your ideal college?
6. Think about the surroundings of your future school. What type of community are you looking for?
 - Rural
 - Urban
 - Suburban
7. Your major should be enjoyable and help you to reach your career goals. List majors you are considering.
8. Describe the student population at your dream school. Is it ethnically diverse, same-sex, religious, etc.?
9. List any special programs (study abroad, honors, internships, etc.) you seek in a school.
10. List any special interests or activities in which you plan to participate during college.
11. Consider how much you and your family can afford. What is the most you can spend on tuition?
12. Is it important for you to have a car on campus?
13. How important is it for your school to have an impressive reputation?
14. Consider your academic profile...check college/university admission guidelines.
GPA: _____ Class Rank: _____ ACT Score: _____
15. Apply early (by October 31st of the senior year). Check college websites for applications and deadlines.

Visit the Counseling office...we can be a great source of information!

ON-LINE OPPORTUNITIES

HIGH SCHOOL & COLLEGE COURSES AVAILABLE

High school and college courses are available on-line offered through the Brigham Young University Independent Study program. University credits earned through on-line study are transferable to many area colleges. Students interested in incorporating on-line learning within their high school schedules should meet with a counselor to develop a plan. Refer to the Brigham Young University website to view a complete list of available courses and syllabi. <http://ce.byu.edu/is/site/>.

ADVANCED PLACEMENT COURSES AVAILABLE

Students who have taken Advanced Placement high school courses and have achieved qualifying scores on the corresponding Advanced Placement test, may be granted college credit in the subject areas in which they have earned that score. Please check with the university's registrar's office for the most current Advanced Placement Credit transfer policy.

Courses listed below are available (on-line) for selection by advanced juniors and seniors. (Curriculum may change from year to year and semester to semester.) Students must have taken the similar curriculum available in the regular schedule prior to requesting a course from this list. These courses are multi-media, independent study courses that include 150 hours of curriculum, an online teacher who answers questions and grades the student's work, and ongoing assessment and reporting.

Certain criteria must be met in order to be placed in such courses.

Similar courses from the regular curriculum must be completed prior to taking an AP course in the same area.

1. Students must have demonstrated exemplary attendance, self-discipline, drive and reliability.
2. Students should have an accumulated G.P.A. of 3.3 or higher.
3. Students must have demonstrated an ability to work independently, without the additional guidance of a teacher mentor or other students taking the same course.
4. Students must be able to stay on task and meet deadlines as established by the course administrators.
5. Students must have superior writing skills since writing assignments focus on developing the ability to critically analyze and discuss issues in coherent and well-written paragraphs.
6. Students must be recommended by a related instructor and counselor.
7. Students should expect at least one hour of homework per night.
8. **Student must successfully complete a final exam to pass the class; failure of class will result in student reimbursing district the cost of class.**

Courses include:

AP English (2 semesters)*	AP Psychology (1 semester)
AP Chemistry (2 semesters)	AP Statistics (2 semesters)*
AP Human Geography (1 semester)	AP U.S. Government and Politics (2 semesters)*
AP Microeconomics (1 semester)	AP U.S. History (2 semesters)
AP Macroeconomics (1 semester)	AP Biology (2 semesters)
	AP Calculus (2 semesters)*

*Offered in a classroom setting at FRCHS.

DUAL ENROLLMENT

Juniors and seniors have the opportunity to take college courses in high school and earn both High School and College credit. Public Act 160 created the Post secondary Enrollment Options Act which directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:

1. Students must have earned sufficient credits to be in grade 11 or 12.
2. Students must be endorsed in the MEAP/MME high school test in the specific subject area of the dual enrollment course.
3. Student must be enrolled in both the school district and the Postsecondary institution during the regular academic school year of the school district.
4. The college course must be post secondary and must be courses not offered by the school district.
5. The college courses cannot be a hobby, craft or recreation course, or in the subject areas of physical education, theology, divinity, or religious education.
6. Students who anticipate being dual enrolled during the junior or senior year must take either the PLAN or PSAT test during the tenth grade year and meet the qualifying scores for dual enrollment. Students may also obtain qualifying scores from the MME and ACT test.

Qualifying Scores

Assessment	Test Section	Content Area	Minimum Dual Enrollment Qualifying Score
PSAT	Critical Reading	Reading	44
	Writing Skills	Writing	49
	Mathematics	Mathematics	45
PLAN	Mathematics	Mathematics	18
	Reading	Reading	17
	Science	Science	19
	English	English	21
ACT	Mathematics	Mathematics	18
	Reading	Reading	17
	Science	Science	19
	English	English	21
MME	Reading	Reading	1100
	Writing	Writing	1100
	Mathematics	Mathematics	1100
	Science	Science	1100
	Social Studies	Social Studies	1100

REQUIREMENTS FOR GRADUATION

TOTAL CREDITS REQUIRED FOR GRADUATION

Class of 2015 = 26 credits

Class of 2016 and beyond = 25.5 credits

4 credits of English

English 9, English 10, English 11, World Literature or Senior Options

3 credits of Social Studies

World History, American History, American Government, Economics

4 credits of Math

Algebra I, Geometry, Algebra II and a senior math class—CTE equivalent

3 credits of Science

Biology, Physical Science, Chemistry or Physics

½ credit each of Health/Physical Education

1 credit Visual, Performing, Applied Arts

2 credits of Foreign Language (Class of 2016 and beyond)

Online Learning Experience

*****The State Board requires that all high school students take the ACT/MME Merit exam as juniors.**

GRADE LEVEL PLACEMENT

To more accurately reflect progress toward graduation, Flat Rock Community High School administration and staff follow a Grade Level/Credit Placement policy. Students will be placed in grade levels based upon total credits earned according to the following guidelines:

Class of 2015

Sophomore promoted to Junior 13.0 Credits

Junior promoted to Senior 20.0 Credits

Class of 2016 and beyond

Sophomore promoted to Junior 12.5 Credits

Junior promoted to Senior 19.5 Credits

Students will be promoted only once per year. That promotion will take place in June...at the conclusion of a school year. Should students acquire additional credits through participation in Summer School programs which affects their grade level placement, reassignment may occur in August (prior to the start of the school year). It is critical that students and parents provide summer school credit information to the High School Guidance & Counseling Office just as soon as it becomes available.

TRANSFER STUDENTS

It is the practice of Flat Rock Community High School to pro rate graduation credits for students transferring into FRCHS based on a formula calculating percent of successful credit achievement compared to credits available to the student. FRCHS expects that students will earn 91.6% of the credits they are exposed to. New students transferring into Flat Rock Community High School will be held to the percentage (91.6%) standard and not the minimum credit standard shown above. Transfer students may be required to earn more or less than the minimum 27.5 credits indicated above. A counselor will determine total number of credits required for graduation.

CLASS COURSE SELECTIONS

9TH GRADE

Classes Are One Semester Unless Noted Otherwise

REQUIRED COURSES

<p><u>ENGLISH</u> English 9 (2 semesters)</p> <p><u>SCIENCE</u> Biology (2 semesters) Advanced Biology (2 semesters)</p> <p><u>MATHEMATICS</u> Algebra I (2 semesters) Algebra I Elements (2 semesters) Geometry (2 semesters) Geometry Elements (2 semesters)</p>	<p><u>SOCIAL STUDIES</u> U.S. History (2 semesters)</p> <p><u>PHYSICAL EDUCATION</u> Sports & Fitness Health</p> <p><u>FOREIGN LANGUAGE</u> Spanish I (2 semesters) French I (2 semesters) German I (2 semesters)</p>
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ELECTIVE COURSES

<p><u>SOCIAL STUDIES</u> History of Michigan</p> <p><u>MATHEMATICS</u> Connections in Mathematics</p> <p><u>BUSINESS EDUCATION</u> Marketing Accounting</p> <p><u>TECHNOLOGY</u> Integrated Comp Tech I Integrated Comp Tech II Web Design I Web Design II App Design Intro to Photography/Photoshop</p> <p><u>LEADERSHIP</u> Student Leadership</p>	<p><u>INDUSTRIAL EDUCATION</u> Basic Drafting & Design Woods Tech/Manufacturing I (2 semesters) Homeowner's Technology Exterior Furniture</p> <p><u>ART</u> Art Survey (Prerequisite for all other art courses.) Drawing Painting 3-D Art</p> <p><u>PHYSICAL EDUCATION</u> Team Sports</p> <p><u>MUSIC</u> Band (2 semesters) Color Guard Music Methods</p>
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CLASS COURSE SELECTIONS

10th GRADE

** Classes Are One Semester Unless Noted Otherwise **

REQUIRED COURSES

<p><u>ENGLISH</u> English 10 (2 semesters)</p> <p><u>SOCIAL STUDIES</u> American Government AP American Government (2 semesters) Economics</p>	<p><u>MATHEMATICS (By Recommendation)</u> Geometry (2 semesters) Geometry Elements (2 semesters) Algebra II (2 semesters) Algebra II Elements (2 semesters)</p> <p><u>SCIENCE</u> Physical Science (2 semesters)</p>
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ELECTIVE COURSES

<p><u>BUSINESS EDUCATION</u> Marketing Accounting</p> <p><u>TECHNOLOGY</u> Integrated Comp Tech I and II Web Design I and II App Design Intro to Photography/Photoshop</p> <p><u>ENGLISH</u> Multi Genre Writing Speech & Presentation Advanced Grammar</p> <p><u>MATHEMATICS</u> Connections in Mathematics</p> <p><u>FOREIGN LANGUAGES</u> French I (2 semesters) French II (2 semesters) Spanish I (2 semesters) Spanish II (2 semesters) German I (2 semesters) German II (2 semesters)</p> <p><u>SCIENCE</u> Environmental Awareness Human Physiology (2 semesters) Chemistry I (2 semesters)</p> <p><u>SOCIAL STUDIES</u> History of War History of Injustice History of Michigan</p>	<p><u>INDUSTRIAL EDUCATION</u> Basic Drafting & Design Basic CAD Advanced CAD I and II Woods Tech/Manufacturing I (1 or 2 semesters) Woods Tech/Manufacturing II Homeowner's Technology Exterior Furniture Advanced Furniture Production Business Technology I Business Technology II</p> <p><u>ART</u> Art Survey (Prerequisite for all other art courses.) Drawing Painting Visual Journal & Printmaking 3-D Art</p> <p><u>MUSIC</u> Band (2 semesters) Color Guard Music Methods</p> <p><u>PHYSICAL EDUCATION</u> Team Sports & Fitness Weight Training</p> <p><u>LEADERSHIP</u> Student Leadership</p> <p><u>EXPERIENTIAL LEARNING</u> Yearbook (2 semesters)</p>
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11th & 12th GRADE COURSE SELECTIONS

Classes Are One Semester Unless Noted Otherwise

11th GRADE REQUIRED COURSES

<p><u>ENGLISH</u> English 11 (2 semesters) Honors English 11 (2 semesters)</p> <p><u>SOCIAL STUDIES</u> American Government AP American Government (2 semesters) Economics</p>	<p><u>MATHEMATICS (By Recommendation)</u> Geometry (2 semesters) Geometry Elements (2 semesters) Algebra II (2 semesters) Algebra II Elements (2 semesters) Pre-Calculus (2 semesters) AP Statistics (2 semesters) Applied Math (2 semesters)</p> <p><u>SCIENCE</u> Chemistry (2 semesters) Advanced Chemistry (2 semesters)</p>
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12th GRADE REQUIRED COURSES

Classes Are One Semester Unless Noted Otherwise

<p><u>ENGLISH—4 Credits Required</u> All classes listed below satisfy the English Requirement for Graduation—may be taken in grades 10-12.</p> <p>World Literature Multi Genre Writing Technical Writing Young Adult Literature AP English & Composition</p>	<p><u>MATHEMATICS—4 Credits Required</u> All classes listed below satisfy the required Senior year math class. A Math class <u>MUST</u> be taken in the senior year.</p> <p>Algebra II (2 semesters) Algebra II Elements (2 semesters) Pre-Calculus (2 semesters) AP Calculus (2 semesters) Applied Math (2 semesters) AP Statistics (2 semesters) Elementary Statistics Financial Literacy Connections in Mathematics CTE—Math Equivalent</p>
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11th & 12th GRADE ELECTIVE COURSES

Students should verify that they are eligible for the courses they select by reading the course descriptions throughout the catalog. Some courses have required prerequisites and are only open to 12th graders unless there is a teacher recommendation.

<p><u>BUSINESS EDUCATION</u> Accounting Marketing</p> <p><u>TECHNOLOGY</u> Integrated Comp Tech I and II Web Design I and II Intro to Photography/Photoshop</p> <p><u>ENGLISH</u> Literature Survey Multi Genre Writing Young Adult Literature Technical Writing</p> <p><u>FOREIGN LANGUAGES</u> French I (2 semesters) French II (2 semesters) German I (2 semesters) German II (2 semesters) Spanish I (2 semesters) Spanish II (2 semesters) Spanish III (2 semesters)</p> <p><u>SOCIAL STUDIES</u> History of War History of Injustice History of Michigan Logic Cultural Anthropology</p> <p><u>SCIENCE</u> Environmental Awareness Human Physiology (2 semesters) Physics (2 semesters) Practical Physics (2 semesters)</p> <p><u>LEADERSHIP</u> Student Leadership</p>	<p><u>INDUSTRIAL EDUCATION</u> Basic Drafting & Design Basic CAD Advanced CAD I, II, III, IV, V Woods Tech/Manufacturing I (2 semesters) Woods Tech/Manufacturing II Woods Tech/Manufacturing III Homeowner's Technology Exterior Furniture Advanced Furniture Production Business Technology I and II</p> <p><u>ART</u> Art Survey Drawing Painting Visual Journal & Printmaking 3-D Art Advanced Art</p> <p><u>MUSIC</u> Band (2 semesters) Color Guard Music Methods</p> <p><u>PHYSICAL EDUCATION</u> Team Sports & Fitness Weight Training</p> <p><u>EXPERIENTIAL LEARNING—</u> <u>Applications Required for all listed below</u> Yearbook Production (2 semesters See Mrs. Sulewski) Career Technical Education Programs (2 semesters) Applications are available in the Guidance Office</p>
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ENGLISH LANGUAGE CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
English 9	Multi-Genre Writing
English 10	Technical Writing
English 11	Young Adult Literature
Honors English 11	Advanced Grammar
World Literature	Speech
AP English Language & Composition	

ENGLISH 9: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course is designed to incorporate meaningful reading, writing, thinking, and study skills into one course. Students will develop, refine, and extend their skills in areas necessary for continuous progress and achievement in their future secondary level courses. Emphasis is on functional language skills such as standard language usage, composition writing (creative and expository), reading comprehension, literary interpretation, spelling, vocabulary development, library skills, listening skills, as well as skills for gaining information from non-print media.

ENGLISH 10: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course for sophomores is presented as a chronology of American authors and the reasons why they wrote what they did. Students will explore themes in American history relating to the literature of each time period. This class will encompass the colonial period to the modern period of the 20th century. Additionally, students will continue the composition skills begun in English 9 and develop into better writers through grammar drills and writing projects.

Prerequisite: Successful completion of English 9A & B. **Grade:** 10

ENGLISH 11: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

The focus of this class traces English 11 chronologically from the Anglo-Saxon period to the Modern period. Ties between politics, religion, the arts and literary works will be emphasized. Students will increase analytical skills while reading both fiction and non-fiction. Writings will include modeling prose, the academic essay and a research paper. Students will also read a novel from the Modern period. **Grade:** 11

HONORS ENGLISH 11: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This class will use an accelerated approach for juniors who like to be challenged.

Prerequisite: B or better average in English 10 and teacher recommendation. **Grade:** 11

MULTI-GENRE READING & WRITING (1 semester) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

People who read often and from different genres make good writers. When we read different genres, we learn to play with words and imitate authors we admire while on the way to developing our own writing style. The student will read and write a variety of genres in this class and create at least 2 MG papers in addition to maintaining and adding to a reading log. The ultimate goal for the student is to broaden his/her horizons and skills in the area of reading and writing. The student should expect increase his/her reading amount and skill as well as improving writing skills. Students enrolling in this class should expect to read and write A LOT.

Prerequisite: Successful completion of English 9A and 9B. **Grade:** 10, 11, 12

WORLD LITERATURE: *(1 semester)* Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

Students will read a variety of literature from around the world and from various cultures.

Emphasis will be placed on analyzing and interpreting both fiction and nonfiction. Students will improve writing skills through the use of various writing styles. Students will read *Antigone*, *Siddhartha*, and *Hamlet*. The last unit will be a project involving a non-western author novel and an independent novel project. **Grades:** 12, 11 with teacher approval

ADVANCED GRAMMAR *(1 semester)* Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

Advanced Grammar is a course designed to help provide all students with the rules and structure of grammar in order to communicate effectively. Students will study mechanics, punctuation, and sentence structure focusing on the various phrases and clauses. While being exposed to reading choice books every day, students will give book talks periodically that promote the reading of current or classical literature. Writing samples will be collected periodically that address the six reasons for writing: express and reflect, inform and explain, evaluate and judge, inquire and explore, analyze and interpret, and take a stand. Peer-editing circles will be utilized as the students explore the revising process. Students will be able to write for different reasons while utilizing correct grammar. Assessments are based on reading, writing, and grammar in the form of quizzes, papers, and book talks. **Prerequisite:** Students entering advanced grammar should have passed English 9, and have a basic knowledge of parts-of-speech and punctuation. **Grade:** 10-12

SPEECH & PRESENTATION *(1 semester)* Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

Students will learn the art of public speaking by improving verbal communication skills and practicing the etiquette of being an engaged listener. Participant will have the opportunity to choose their own topics based on different styles of speeches such as demonstrative, persuasive, informative, research-based, and impromptu. Students will be required to organize topics, outline information, deliver speeches, take notes, and make informed judgments and decisions. This class will teach students to overcome nervousness in public performances, a necessity for job interviews and interpersonal relationships. Students will be able to incorporate the elements of public speaking into well-constructed speeches geared toward specific audiences. **Grade:** 9-12

TECHNICAL WRITING: *(1 semester)* Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

This class will focus on reading, writing and speaking skills that relate to a technical career and/or college. Students will be writing for different audiences and will complete multiple projects including, resumes, letters of application, memos, and instructional, directional and evaluative pieces. Students will also practice both citation forms – MLA and APA.

This is NOT a remedial English class, but rather a class designed to give students more confidence in reading, writing and communication skills that will be beneficial in both college and the workforce. **Grades:** 11 and 12

YOUNG ADULT LITERATURE: *(1 semester)* Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

Students will read literature based on a multitude of themes that they may encounter in their lives as teenagers. They will read novels, short stories and articles from a variety of genres. They will complete projects and writings related to the many readings and themes discussed in the class. Students will be expected to read on a daily basis, both as a group and individually. **Grades:** 11, 12

AP ENGLISH LANGUAGE AND COMPOSITION: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The purpose of the AP English Language and Composition course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. In addition, the informed use of research materials and the ability to synthesize varied sources (to evaluate, use and cite sources) are integral parts of the AP English Language and Composition course. Students move past assignments that allow for the uncritical citation of sources and, instead, take up projects that call on them to evaluate the legitimacy and purpose of sources used. One way to help students synthesize and evaluate their sources in this way is the researched argument paper.

Prerequisites: B average in English courses and 2 teacher recommendations. **Grade:** 12

FOREIGN LANGUAGE CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
French I	Spanish I
French II	Spanish II
German I	Spanish III
German II	

FRENCH I: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course is designed as an introduction to the French Language and culture. Emphasis will be placed on learning to “Think French” through a blending of listening, speaking, reading and writing skills. In addition to basic grammar, students will be exposed to oral readings, recordings, cultural selections and dictations. Concentration will be placed on the building of extensive and varied vocabulary, acquiring proper pronunciation skills and gaining and understanding the basic parts of speech and verbs. **Prerequisite:** “C” average in English.

Grades: 9, 10, 11, 12

FRENCH II: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Students will continue to work with more extensive grammar concepts and will expand their abilities to speak, read, write and listen in French. All major verb forms will be covered and students will begin to read some excerpts from various French literary figures as well. French culture and history as well as current trends will be examined. **Prerequisite:** “C” or better in French I.

Grades: 10, 11, 12

GERMAN I: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

German I is an introduction to the German language and culture. In this course, students will learn to understand, speak, read, and write basic German. There is an emphasis on vocabulary building and the grammar necessary for language use in the classroom. **Prerequisite:** “C” average in English.

Grades: 9, 10, 11, 12.

GERMAN II: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Students will continue to work with more extensive grammar concepts and will expand their abilities to speak, read, write and listen in German. German culture, history and current trends will also be examined. **Prerequisite:** “C” average in English.

Grades: 10, 11, 12

SPANISH I: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

In this course students will learn to understand, speak, read and write basic Spanish primarily in the present tense. Students will also be exposed to the culture and geography of Spanish speaking countries. Students will be asked to produce the language on a daily basis, however in low anxiety formats. Students will complete writing assignments, culture projects, dialogs and presentations using the Spanish language. **Prerequisite:** “C” average in English.

Grades: 9, 10, 11, 12.

SPANISH II: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Spanish II will build on the vocabulary learned in Spanish I, but the focus will shift from the present tense to the past tense. Students will continue to learn about the culture and geography of Spanish speaking countries! The format of this class will be similar to Spanish I. Students will be asked to produce the language on a daily basis in low anxiety formats. Students will complete writing assignments, culture projects, dialogs and presentations using the Spanish language.

Prerequisite: "C" average in English. **Grades:** 10, 11, 12.

SPANISH III: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Spanish III is a class for Spanish students who want to refine their fluency. Not only will students build on vocabulary taught in Spanish I and II, they will expand their use of complex grammar structures. The goals of this class will be to understand, read, speak and write communicatively in Spanish and to understand Spanish-speaking cultures. The class will be conducted mostly in Spanish and the students will learn by reading short novels and current event articles, translating songs, and through storytelling. **Prerequisite:** Successful completion of Spanish I and Spanish II **Grades:** 11, 12

SOCIAL STUDIES CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
U.S. History	History of War
American Government	History of Injustice
Economics	History of Michigan
World History	Logic
AP American Government	Cultural Anthropology

U.S. HISTORY: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Focus for this course will be placed upon both the domestic and international roles that the United States has played during the late 18th century to the present. This course will emphasize all aspects of Social Studies including history, geography, economics and politics. Information presented will span from the nation's beginning to the present day United States. **Grade: 9**

AMERICAN GOVERNMENT: (1 semester) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course will provide a study of the structure and functions of our local, state and national governments. Students will learn to embrace the freedoms that they are granted in this country and learn to function as a citizen in their community. **Grades: 10, 11**

ECONOMICS: (1 semester) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This class is organized around major economics concepts with activities that relate these to market situations, government economics policies and business decisions. Students participate in a variety of academic activities in each chapter and a variety of projects that reinforce knowledge, interpret data and develop analytic skills. **Grades: 10, 11**

WORLD HISTORY: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This general survey course provides an overview of the major turning points that have shaped the modern world. Students will trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues. Emphasis will be placed on historical, geographic, political, economic and cultural perspectives. Grade: 9, 10, 11,12. Required for the Class of 2016 and beyond in their 11th grade year.

HISTORY OF WAR: (1 semester) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course analyzes warfare throughout history. Discussing the cause and effects of warfare, how it was used to expand empires, and how it has changed throughout history. It discusses particular wars, examining the differing points of view of those involved, and using primary sources for students to gain a more in depth knowledge of events.

Prerequisites: None **Grades:** 11, 12 (10th grade by recommendation)

HISTORY OF INJUSTICE: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course analyzes human behavior and how throughout history groups have been mistreated. It discusses the cause and effects racism and ethnic cleansing. It discusses the cause, events and effects of the Holocaust and other genocides. **Grades:** 11, 12

HISTORY OF MICHIGAN: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course will focus on the history of our State, Flat Rock and surrounding areas. Emphasis will be placed on the development of our state, political environment, economic status and geography. In addition students will be able to explain the role our state has within our country. **Grades:** 9, 10, 11, 12

LOGIC: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This class will explore formal logic and its uses in argumentation. We will explore what makes an argument valid or invalid, well written or poorly written, as well as what logical fallacies are commonly used. Students will gain experience using classroom texts as well as real life examples, which will increase critical reading and thinking skills. This course serves as an excellent precursor to AP English Language and Composition for juniors, and as a college prep level of critical thinking and reading for seniors.

CULTURAL ANTHROPOLOGY: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

In this course, students will be introduced to the basics that include kinship, formations of societies, behaviors and cultural norms. This course will integrate lecture, application, experience, and outside experience. The curriculum is modeled on a first year college curriculum and is meant to be fast paced and rigorous. Outside work and reading is required. Grade: 11 and 12

AP GOVERNMENT: *(2 semesters) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course will explore the political theory and everyday activities of the United States Government. It will show how public policy is made. The express purpose of this course is to prepare students to take the AP Exam for U.S. Government and Politics. This course for all intents and purposes is taught on a college level, that will require a substantial amount of reading and preparation on the students behave to be read for every class. The objective is to go beyond how government works and to instead develop an understanding of the strengths and weaknesses of the American political system, as well as the rights and responsibilities of the citizens. **Prerequisite:** Successful completion of US History with a “B” average or higher and teacher recommendation. **Grade:** 10, 11

MATHEMATICS CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Algebra I	Pre Calculus
Algebra I Elements	AP Calculus
Geometry	Elementary Statistics
Geometry Elements	Financial Literacy
Algebra II	AP Statistics
Algebra II Elements	Connections in Mathematics
Applied Math I	

It may be possible to satisfy math requirements for graduation by completing approved CTE classes. Please check the DCTC website for the most up to date information. <http://www.dctc-cte.org/counselors.htm>

ALGEBRA I: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Algebra I is an entry level mathematics course. Students will explore probability, linear, quadratic, and exponential functions represented in a variety of ways. A significant examination of inequalities, systems of equations, and quadratic equations will be included in this course.

ALGEBRA I ELEMENTS: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Algebra I Elements is an entry level mathematics course. Students will explore probability, linear, quadratic, and exponential functions represented in a variety of ways. An examination of inequalities, systems of equations, and quadratic equations will be included in this course. This course is not intended to prepare students for Precalculus. Students enrolling in this course should enroll in other “Elements” courses in following school years.

GEOMETRY: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

The coursework in this class starts with an informal introduction to geometry. Students will learn about basic rules of logic, proofs, lines, planes, polygons, transformations, and circles. Coordinate geometry and algebraic applications are focused on as well. **Prerequisite:** Successful completion of Algebra I or teacher approval. Grades: 9, 10, 11, 12

GEOMETRY ELEMENTS: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

The coursework in this class starts with an informal introduction to geometry. Students will learn about basic rules of logic, lines, planes, polygons, transformations, and circles. Coordinate geometry and algebraic applications are focused on as well. This course is not intended to prepare students for Precalculus. Students enrolling in this course should enroll in other “Elements” courses in following school years. **Prerequisite:** Successful completion of Algebra I or Algebra I Elements or teacher approval. Grades: 9, 10, 11, 12

ALGEBRA II: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course will provide a thorough study of absolute value, linear, quadratic, polynomial, radical, exponential, and logarithmic functions. Matrices, inverses, inequalities, systems of equations, and basic statistics will also be explored in this course. **Prerequisite:** Successful completion of Geometry or teacher approval. Grades: 10, 11, 12

ALGEBRA II ELEMENTS: (2 semesters) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

Students in this course will explore absolute value, linear, quadratic, exponential, and logarithmic functions. Solving linear equations, matrices, inequalities, systems of equations, and basic statistics will also be explored. This course is not intended to prepare students for Precalculus. **Prerequisite:** Successful completion of Geometry or Geometry Elements. Grades: 11, 12

PRECALCULUS: (2 semesters) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

The first semester will conclude the in depth understanding of the 12 Basic Functions that began in Math Analysis including an exploration for Higher Polynomial Functions, Rational Functions, and the use of Complex Zeros. Exponentials Expressions/Functions and Logarithmic Expressions/Functions will be discussed. The semester will conclude with an in depth analysis of Basic Trigonometry and Trigonometric Functions...including Angle Measurements (Degrees, Minutes, & Seconds as well as Radians), Linear and Angular Speed, Circular Functions, and Inverse Trigonometric Functions. The second semester will include an in depth understanding of Advanced Analytic Trigonometry...including Identities, Proof of Identities, using Identities to solve Trigonometric Equations, and the Laws of Sine & Cosine. Graphing and manipulation of Polar Coordinates and Polar Equations will be addressed. The semester will conclude with a thorough study of the Conic Sections (Circle, Parabola, Ellipse, and Hyperbola). **Prerequisite:** Successful completion of Algebra II ("C" average or teacher approval.) **Grade:** 11

AP CALCULUS: (2 semesters) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

This course is designed to study the material covered on the AP Calculus AB Exam. The concepts that will be explored are limits, derivatives, and integrals of algebraic, trigonometric, exponential, and logarithmic functions. Significant applications of calculus will be examined. **Prerequisite:** Successful completion of Pre-Calculus ("C" average or teacher approval.) **Grade:** 12

APPLIED MATHEMATICS I: (2 semesters) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

Applied Mathematics I explores algebraic and geometric material from a different perspective than the more typical mathematics class. The students will use problem solving techniques through investigation in various topics such as estimation, graphing, data analysis, measurement, lines and angles, two and three dimensional space and ratios and proportions. Application of real world problems through laboratory activities, group participation and instructional videos are a vital aspect of this course. **Prerequisite:** Algebra I and instructor's recommendation. **Grades:** 11 and 12

FINANCIAL LITERACY: (1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

The primary goal of this class is to provide the students with some basic personal financial knowledge that they will be able to take with them and apply after their graduation from high school. Areas covered include, an overview of Personal Finance, Financial Responsibility & Decision Making, Income & Careers, Savings and Credit, and Savings & Investing. **Grade:** 12

ELEMENTARY STATISTICS: (1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience

The course work in this class starts with the study of statistics and probability. Students will be introduced to standard methods in statistics, emphasizing the rationale behind them and their applications to problems in a variety of fields. Topics include data summary and representation,

measures of center and dispersion, correlation and regression, basic probability, point and interval estimation, and hypothesis testing. **Prerequisite:** Successful completion of Algebra II (“C” average or teacher approval) **Grade:** 12

CONNECTIONS IN MATHEMATICS: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*
This class explores mathematical principles that apply to a variety of subjects. Mathematical topics including geometry, game theory, and number theory will be discussed in connection with art, literature, gaming and history. **Prerequisite:** Algebra I **Grades:** 9, 10, 11, 12

AP STATISTICS: *(2 semesters) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*
The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

- Exploring Data: Describing patterns and departures from patterns
- Sampling and Experimentation: Planning and conducting a study
- Anticipating Patterns: Exploring random phenomena using probability and simulation
- Statistical Inference: Estimating population parameters and testing hypotheses

Students who successfully complete the course and examination may receive credit and/or advanced placement for a one-semester introductory college statistics course.

Prerequisite: Juniors must have earned B or better in Algebra 2. Seniors must meet one of the following 3 conditions: 1) B or better in Algebra 2 as a junior, 2) Successfully completed Pre-calculus as a junior, 3) Successfully completed Algebra 2 and a B or better in Elementary Statistics with the Elementary Statistics teacher’s recommendation Note-This course cannot be taken concurrently with Elementary Statistics. **Grades:** 11, 12

SCIENCE CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Biology	Chemistry I
Advanced Biology	Advanced Chemistry
Physical Science	Human Physiology
Environmental Awareness	Physics
Practical Physics	

BIOLOGY: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This class is a study of all forms of life starting with the cell and proceeding through various organ systems. The course will also include a general overview of the kingdoms of living things, cellular processes, genetics and the ecosystem. Text material is supplemented by various lab dissections. **Grade:** 9

ADVANCED BIOLOGY: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

A thorough survey of all forms of life starting with the cell and looking at one-cell organisms, fungi, plants, invertebrates and vertebrates. Text material is supplemented by microscope activities and lab dissections of the earthworm, clam, crayfish, perch and frog. **Prerequisite:** “B” or better in 8th grade science course with teacher recommendation. **Grade:** 9 (This course may not be taken in addition to Biology.)

PHYSICAL SCIENCE: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Physical Science A will take students on a journey through chemistry exploration. Students will be engaged in learning about matter and its states as well as the structure of matter and atoms. The periodic table will be revisited to help illustrate why and how chemical reactions can and do occur among many common substances as well as how new substances are discovered and formed. Students will also explore the relationship among acids and bases as well as salts and the importance they play in our everyday lives. This class will be fast moving and fun utilizing exploration labs and/or hands on activities to attain concept success.

Physical Science B will introduce students to the concept of physics and provide a short section on Earth Science. Students will learn how everyday activities utilize the concepts of speed and acceleration, Newton’s 3 Laws of Motion, various forces and energy transformations, and transitions through interactive labs and group learning. Students will also explore concepts of magnetism and electricity through building parallel and series circuits. Finally, students will have the opportunity to compare and contrast how light, sound and wave characteristics are related to one another through various forms of discovery. **Grade:** 10

ENVIRONMENTAL AWARENESS: (1 semester) *Natural Resources & Agriscience*

This course includes a stream project on our Silver Creek with Wayne County Environmentalists. The program will provide: (1) methods used in scientific river study, (2) an enjoyable experience that encourages students to become life long river stewards and (3) assistance to the Flat Rock community in decisions that affect its river and streams. This course will explore our environment through both physical science and life science perspectives. Some of the topics covered will be: energy recycling, natural resources, pollution, the green house effect, ecosystems, ecology and acid rain. With our changing world we need thinkers, well-informed individuals to vote knowledgeably on scientific issues. Even in our daily lives we need

to be scientifically knowledgeable. This course is for those who want to learn how to make our world better by living responsibly. **Prerequisite:** Biology or Physical Science **Grades:** 10, 11 or 12

HUMAN PHYSIOLOGY: (2 semesters) *Health Sciences*

Major emphasis will be the complete study of man. Cells, tissues, muscles, bones, genetics, nervous, digestive, circulatory and excretory systems will be studied in detail. The sheep eye, sheep brain, and sheep heart will be dissected along with a fetal pig to parallel with the various systems of the body. **Prerequisite:** “B” or above in Biology recommended or department approval. **Grades:** 10, 11, 12

CHEMISTRY: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Introduction and overview of basic chemistry topics. Includes – the study of chemical identities, periodic table information, forming compounds, balancing simple chemical equations, electrochemistry, acid-base chemistry and thermodynamics. Simple laboratory work will be included. Limited math requirements. **Grade:** 11

ADVANCED CHEMISTRY: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Introduction and overview of basic chemistry topics. Includes: the study of chemical identities, periodic table information, forming compounds, balancing chemical equations, electrochemistry, acid-base chemistry and thermodynamics. Simple laboratory work will be included. A more rigorous mathematical approach will be taken in this course. Will serve as a good primer for college level general chemistry. **Prerequisite:** “C” or better in Algebra I; Recommendation by current math teacher & science teacher. **Grade:** 11

PHYSICS: (2 semesters) *Engineering, Manufacturing & Industrial Technology*

This class will examine how the physical world can be described and represented in ways that permit us to predict consequences that follow from given events. Using laboratory experiments when applicable it will examine mechanical and energy forces, straight and curved path motion, gravity, work, power, thermal energy, light, sound, and electricity. **Prerequisite/Co-requisite:** Pre-Calculus **Grade:** 12 (11th by recommendation only)

PRACTICAL PHYSICS: (2 semesters) *Engineering, Manufacturing & Industrial Technology*

This inquiry-based course explores the laws and principles that govern the physical world through hands-on activities. Laboratory experiments are greatly utilized. Topics of study include the motion of objects, forces, energy, work, power, thermal energy, light, sound, and electricity. **Prerequisite:** Physical Science **Grade:** 11 or 12

BUSINESS EDUCATION CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Retail Marketing	Accounting

RETAIL MARKETING: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course provides a foundation in basic principles and concepts of marketing, as well as retail merchandising. The topics covered in this course are: purchasing, distribution, transportation, buying, pricing, advertising, and sales. Also an emphasis is placed on the kinds of markets and market identification. The four "P's" of marketing--Product, Place, Price, and Promotion are an integral part of the marketing course. Competition, customer behavior, and marketing strategies are also covered. Marketing is concerned with the needs and wants of prospective customers through exchange processes. **Prerequisite:** None

ACCOUNTING: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Accounting will enable you to prepare and understand basic financial records for a business. Theory and principles to include adjusting and closing procedures, payroll, bank reconciliation and preparation of financial statements will be covered. Students are introduced to various journals as well as various types of business ownerships such as sole proprietorship, partnership and corporation will be the focus areas of this course. The goal is to learn the complete accounting cycle. Some computer application will enhance the course. This course is highly recommended for any student considering a career in business, marketing or small business ownership. **Prerequisite:** None

TECHNOLOGY CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Integrated Computer Technology I	Web Design II
Integrated Computer Technology II	Intro to Photography & Photoshop
Web Design I	

INTEGRATED COMPUTER TECHNOLOGY I: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Students will create a powerful slide presentation using graphs, charts, video, etc; create and edit a data base system; create a spread sheet and generate a graph; produce a variety of business documents; and enhance keyboarding skills. Students will also learn basic and intermediate concepts of all Microsoft Office programs and other essential software processes that will be used throughout high school, college, and in whatever career path you follow. In this course, students will use an on-line learning system for lecture notes, exercises, tutorials, on-line discussions and assessments with on-line help and email available. **Prerequisite:** None

INTEGRATED COMPUTER TECHNOLOGY II: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course is a project-based approach to real-life applications of computer technology. Students will develop advanced skills using Microsoft Office and other essential software programs. In addition, employability skills, organization and communication skills, work ethics, problem solving and decision making will be taught. In this course, students will use an on-line learning system for lecture notes, exercises, tutorials, on-line discussions and assessments with on-line help and email available.

WEB DESIGN I: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This class offers students the basic knowledge of creating a hand-coded web site with various design elements. Students will learn how to write basic XHTML and HTML5 code and will be introduced to CSS. Students will learn how to create tables, forms, and add external styling to the web pages. Students who take this class must know how to work independently while meeting deadlines and prioritizing work. This class should not be taken if you already code and understand HTML & CSS. **Prerequisite:** None

WEB DESIGN II: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

In this class, students will learn how to write client-side JavaScript and includes the foundation you need to continue on to be a professional web developer. Specific areas include manipulating the DOM with JavaScript, handling events with JavaScript, scope in JavaScript, etc. Students who take this class must know how to work independently while meeting deadlines and prioritizing work. **Prerequisite:** Successful completion of Web Design I

INTRO TO PHOTOGRAPHY & PHOTOSHOP: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Students will learn how use aperture, shutter speed, ISO, and camera angles to find a point of interest. Students will learn about the rule of thirds, focusing and digital-processing techniques for composition. Photoshop will be utilized for retouching and getting the most out of each individual image. The class will also teach skills and techniques for shooting amazing portraits. Students will maintain an online portfolio of work of their photography. It is recommended that students have their own DSLR or digital camera for class. **Prerequisite:** None

EXPERIENTIAL LEARNING

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Student Leadership	Yearbook Production

YEARBOOK PRODUCTION: (2 semesters) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This is a two-semester course. The objective is the production of the Rambler. Not only is this a great responsibility with a considerable amount of work and hours required after school, but it is also extremely rewarding. The students' responsibility lies not only with the instructor, but also with the publishing company and student body. All aspects of production will be taught and utilized: layout design, computer software, copy writing, editing, photography, cropping, and financial obligations. Cooperation skills and computer literacy a must, as the yearbook is produced entirely on-line. **Prerequisites:** Open to sophomores, juniors and seniors who have successfully completed English 9 and English 10 with a 3.0 average in all English classes, reference from two English instructors, completed application, and permission of instructor. This class will not satisfy an English requirement for graduation.

LEADERSHIP TRAINING

STUDENT LEADERSHIP : (1 semester) *Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This course is based on the belief that good leaders are developed – not born. Therefore, this class is designed for students to learn and practice leadership skills. Students will be given the opportunity to become involved in a wide variety of school and community activities and service projects and study the basics of leadership.

ART CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Art Survey	3-D Art
Drawing	Painting
Visual Journal & Printmaking	Advanced Art

** All courses satisfy the Visual Performing and Applied Arts requirement for graduation.

ART SURVEY: (1 semester) *Arts & Communication*

This course is an overview of a variety of art media, art styles, techniques, and art history. Projects include: drawing, painting, sculpture, ceramics and collage. It is open to all grade levels.

DRAWING: (1 semester) *Arts & Communication*

Students will study various artists, techniques and create artwork based on select techniques. This class involves drawing with a variety of media, including: charcoal, pastels, oil pastels, pencil, color pencil and more! **Prerequisite:** Successful completion of Art Survey

PAINTING: (1 semester) *Arts & Communication*

Students will study a variety of artists, techniques and media, including: watercolor, tempera, acrylic, and water-soluble oil pastels. Students will learn about canvas, watercolor paper, canvas panel, etc. Mixed media will be discussed also. **Prerequisite:** Successful completion of Drawing

THREE-DIMENSIONAL ART: (1 semester) *Arts & Communication*

This course is offered as a TWO section/hour class. Students will explore three-dimensional art, including: ceramics and sculpture. Various artists, techniques and media will be utilized. Projects include using techniques such as: coiling, pinching, slab, additive and subtractive. The wheel will be introduced. **Prerequisite:** Successful completion of Art Survey

VISUAL JOURNAL AND PRINTMAKING: (1 semester) *Arts & Communication*

Students will explore creativity and “think outside of the box” through the use of a visual journal. Projects are created through book making, visuals, writing, poetry, collage, etc. Students will utilize their knowledge of drawing and painting techniques to create their journal. **Prerequisite:** Successful completion of Painting. **Grades:** 11, 12

ADVANCED ART: (1 semester) *Arts & Communication*

Students will be given projects based on student skills in a particular media, artist, technique, etc. Students must complete a portfolio of artwork with a minimum of 10 pieces of artwork. As part of their grade, students will be responsible for locally displaying their artwork, writing an artist statement, and critique of artwork. **Prerequisite:** Successful completion of all other art courses **Grades:** 11, 12

MUSIC CURRICULUM

<u>COURSE TITLES</u>

Band

Color Guard

Music Methods

** All courses satisfy the Visual Performing and Applied Arts requirement for graduation.

BAND: (2 semesters) *Arts & Communication*

Instruction in a wide variety of band literature including symphonic, concert, marching, and pep bands. The first nine weeks are devoted solely to marching techniques and the remainder of the school year generally to concert repertoire. Members of the band may also try out for drum major or flag corps; (unit which augment the band). The band performs for a number of school and civic activities such as; football games, basketball games, concerts, parades, band festivals, and solo and ensemble festivals. An optional one-week band camp is offered prior to the start of school. (Fee required) An optional trip may be offered each year. (Fee required) A list of dates of required performances will be made available each semester. **Band A is a two-hour block.** Band B is a one-hour class. **Prerequisite:** Approval of Director.

COLOR GUARD: (1 semester) *Arts & Communication*

This course meets during the first semester and coincides with the High School Band. Students will participate in all band activities including Band Camp, Home Football Games, and other on and off campus performances. Students will learn basic and advanced skills in the area of Flags and other Marching Band auxiliary routines. Grading will be based on skill, commitment, and participation. Knowledge of music or the ability to play a musical instrument is not necessary to be successful in this course. This course is both curricular and extra-curricular; meaning out of school time is required.

MUSIC METHODS (1 semester) *Arts & Communication*

Music Methods provides an in-depth study of the processes of music performance, composition and analysis. Students acquire skills in complex aural skills, musical notation, interval recognition, chord structure, harmonic progression, and form. Examples are analyzed from music literature to see how music theory functions in music of all styles. Students who take this course must have acquired basic skills in vocal or instrumental performance.

Prerequisite: Advanced music reading skills and/or prior participation in a music performance class. Music reading skills on at least one clef; or teacher recommendation.

INDUSTRIAL EDUCATION CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Basic Drafting & Design	Woods Technology/Manuf. I
Basic Auto CAD	Woods Technology/Manuf II
Advanced Auto CAD I	Woods Technology/Manuf III
Advanced Auto CAD II	Advanced Furniture Production
Advanced Auto CAD III	Exterior Furniture
Advanced Auto CAD IV	Homeowners Tech
Advanced Auto CAD V	Business Technology I
Technology I	Business Technology II

** All courses satisfy the Visual Performing and Applied Arts requirement for graduation.

The Industrial Education department at Flat Rock High has restructured the Tech Education curriculum to allow for a wide range of exposure and application of varying modern day technologies. The curriculum is designed around the three major areas of technology including: Physical Technology, Informational Technology and BioTechnology.

BASIC DRAFTING & DESIGN: *(1 semester) Engineering, Manufacturing and Industrial Technology*

This course will cover basic drafting and design fundamentals as related to engineering (mechanical) drafting. Topics covered will be graphic language, design, use of manual drafting tools, lettering, sketching, geometric construction, pictorial drawings, multiple view, and section drawings. This class is a prerequisite for all CAD classes.

BASIC AUTO CAD: (Computer Aided Design): *(1 semester) Engineering, Manufacturing and Industrial Technology*

This course is designed to be a continuation of the Basic Drafting and Design program in which the student will continue learning drafting skills, but they will be applied using CAD. The students will begin by learning the basic commands used to create a CAD generated drawing. They will then learn how to apply dimensions, be introduced to geometric dimensioning and tolerancing, and how to create various threads and fasteners. **Prerequisite:** Basic Drafting & Design

ADVANCED AUTOCAD I: *(1 semester) Engineering, Manufacturing and Industrial Technology*

This course is designed for the student who really enjoys Drafting/CAD, but is unsure what area they would like to pursue. Students will build on their previous CAD experience, while reinforcing manual drafting skills. Topics covered may include two and three dimensional drawings, multi-view drawings, pictorials, sectioning, floor plans, and elevation views. In addition, the students will begin learning engineering controls related to CAD Design. **Prerequisite:** Basic AutoCAD (Computer Aided Design)

ADVANCED AUTOCAD II: *(1 semester) Engineering, Manufacturing and Industrial Technology*

This course is designed for the student who is serious about Drafting/CAD. Students will be given assignments of an advanced nature that fit their individual requirements. Some topics to be covered will include geometric dimensioning and tolerances, external references and 3D drawing. In addition the students will be introduced to 3D modeling software. Only the serious need apply. **Prerequisite:** Advanced CAD I and instructor's approval.

*Students successfully completing the following three classes: Basic Drafting & Design, Basic Auto CAD & Advanced Auto CAD I are eligible to receive college credit for MDTC 151 at Monroe County Community College with instructor's approval at no cost to the student. These credits are transferable to most colleges. A similar agreement is currently being processed with Henry Ford Community College and Wayne County Community College. For more information, please contact Mr. Yoas, Drafting Instructor or the High School Counseling Office.

ADVANCED AUTOCAD III, IV & V: (1 semester each) *Engineering, Manufacturing and Industrial Technology*

These courses allow the students to learn various additional CAD software. Some of these titles include SolidWorks, Inventor, Architectural Desktop, 3ds Max, Civil and more. These programs offer a more realistic 3D rendering and the ability to create animations. **Prerequisite:** Advanced CAD II and instructor's approval

WOODS TECHNOLOGY/MANUFACTURING I: (1 or 2 semesters) *Engineering, Manufacturing and Industrial Technology*

This is an introductory class that exposes students to woodworking technology. Students will learn the correct way to use power tools. The class will study ruler usage, technical writing skills, group learning, woodworking occupations, joining techniques, and safety procedures.

WOODS TECHNOLOGY/MANUFACTURING II and III: (1 semester) *Engineering, Manufacturing and Industrial Technology*

This class will be exposed to wood lamination, steam bending, inlay, jig and fixture design, related occupations and fine woodworking techniques. A project will be designed, mass-produced and marketed by the class using modern manufacturing methods. **Prerequisite:** Woods Technology/Manufacturing I.

ADVANCED FURNITURE PRODUCTION: (1 semester) *Engineering, Manufacturing and Industrial Technology*

This class will learn modern furniture production methods and techniques used today in industry. Students will design and build a piece of furniture to specifications. Each student will be required to enter their final product in Industrial Technology Education Regional Competition. (i.e. grandfather clock, curio cabinet, roll top desk) **Prerequisite:** Woods Technology/Manufacturing I & II

EXTERIOR FURNITURE: (1 semester) *Engineering, Manufacturing and Industrial Technology*

Students will learn proper building techniques used in making exterior furniture. Example of the products that the students will be producing are Adirondack chairs, hexagon tables, picnic tables, flower post hangars, A-frame swing set, scale model gazebo, and many styles of custom benches. **Prerequisite:** Woods Technology/Manufacturing I

HOMEOWNERS TECHNOLOGY I: (1 semester) *Engineering, Manufacturing and Industrial Technology*

This class will cover practical applications of technology. The unit will include fasteners, wiring, plumbing, soldering, dimensioning, woodworking (rough & finish), basic cement working, and residential and industrial codes. **Prerequisite:** Woods Technology/Manf. I

BUSINESS TECHNOLOGY I: (1 semester) *Engineering, Manufacturing and Industrial Technology*

Seasonal Projects

- Students will choose from a list of projects to work on.
- Students will research the design, manufacturing, cost and marketing of the projects.

The class will cover drawing, wood tech, metal working, and the business aspects of the final product. It will also figure in the costs. The final product will be sold to the community with the proceeds being placed back into the program.

BUSINESS TECHNOLOGY II: (*1 semester*) *Engineering, Manufacturing and Industrial Technology*

Students will select products to make and market to the community. Products will be mass-produced in the woodshop by means of flow charts and production schedules. Business Technology II will utilize the entire class to produce their chosen products. This class will focus more on how to become an entrepreneur and start your own small business. **Prerequisite:** Business Tech I

HEALTH & PHYSICAL EDUCATION CURRICULUM

<u>COURSE TITLES</u>	<u>COURSE TITLES</u>
Sport/Fitness	Team Sports & Fitness
Health	Advanced Weight Training

SPORTS/FITNESS: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This one-semester class will include daily cardio respiratory and flexibility activities, as well as strength training. Also included will be the development of lifetime sport skill building. Pre and Post physical fitness testing is also given. This is a required class, which must be passed in order to graduate. **Prerequisite:** None

HEALTH: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

This one-semester class will cover the mental, physical, social, and emotional aspects of an individual. This is a required class, which must be passed in order to graduate.

Prerequisite: None

TEAM SPORTS & FITNESS: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

Daily cardiovascular fitness and flexibility will be done. Game competitions will include such activities as touch football, soccer, floor hockey, basketball, volleyball, softball, and whiffle ball.

Prerequisite: Sports/Fitness/Health **Grades:** 10, 11, 12

ADVANCED WEIGHT TRAINING: *(1 semester) Arts & Communication; Business, Management, Marketing & Technology; Engineering, Manufacturing & Industrial Technology; Health Sciences; Human Services; Natural Resources & Agriscience*

The student will complete a pre-lifting phase including: free-weight lifting techniques and instructions on how to use all equipment in the weight room. The student will also gain knowledge of different muscle groups and which piece of equipment builds those specific muscle groups and will participate in weight, cardio vascular/plyometrics and activities in the gym. Once the student completed the pre-lifting phase, he/she will select a program of exercise including upper body, lower body, and abdominal exercises. Student's program will be monitored regularly and adjustments will be made when necessary. **Prerequisite:** Sport/Fitness

DOWNRIVER CAREER TECHNICAL CONSORTIUM

DCTC

STATEMENT OF COMPLIANCE WITH FEDERAL LAW

The Downriver Career Technical Consortium complies with all Federal laws and regulations of the U.S. Department of Education. It is the policy of the Downriver Career Technical Consortium that no person on the basis of race, color, religion, national origin or ancestry, age, sex, marital status, handicap or limited English proficiency shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to, discrimination in any program or activity to which it is responsible or for which it receives financial assistance from the U.S. Department of Education. Furthermore, the Consortium will encourage participation by all of the above.

Adopted by the Downriver Career Technical Consortium, November 23, 1982.

NOTICE OF NONDISCRIMINATION POLICY

It is the policy of the Downriver Career Technical Consortium that no person shall, on the basis of race, color, national origin, sex, handicap or limited English proficiency, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity and in employment.

Any questions concerning Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, should be directed to:

Coordinator, Area Placement
Downriver Career Technical Consortium
22000 Gibraltar Road
Flat Rock, Michigan 48134
(734) 782-3194

Inquiries related to Section 504 of the Rehabilitation Act of 1972, which prohibits discrimination on the basis of handicap, should be directed to:

Coordinator, Special Needs
Downriver Career Technical Consortium
22000 Gibraltar Road
Flat Rock, Michigan 48134
(734) 782-3194

ACADEMIC CONSORTIUM

Another opportunity provided by the Downriver Career Technical Consortium (DCTC) is the Academic Consortium. Juniors and seniors from the nine school districts belonging to the DCTC are eligible to attend classes within the Academic Consortium.

The purpose of the Academic Consortium is to provide students with access to unique and / or high level classes such as Advanced Placement, Foreign Language and Fine Arts classes that are not offered at their high school.

Students interested in taking high-level or unique classes through the Academic Consortium should discuss this interest with their school counselor.

You can view available Academic Consortium classes on our Web site: www.resa.net/dctc

CAREER & TECHNICAL EDUCATION

Architectural Drafting and CAD	Engineering CAD/Drafting
Auto Collision Repair	Graphic Communications
Auto Service Technology	Health Sciences Occupations
Aviation Technology	Heating/Ventilation/Cooling
Business Management	Hospitality/Culinary Arts
Cabinet and Furniture Making	Introduction to Education
Construction Trades Technology	Marketing
Cosmetology	Pharmacy Technician (2 nd Year Program)
Dental Occupations	Video Productions
Electronics	Web Design
EMT & Criminal Justice	Welding

Please check the DCTC Website: <http://www.dctc-cte.org/> for the most current information on any of the courses listed in this section of the course catalog.