

## **NOTICE REGARDING NON-DISCRIMINATION POLICY**

It is the policy of the Eaton Rapids Public Schools not to discriminate on the basis of race, color, religion, national origin, sex, age, marital status, height, weight, or disability in its employment practice as well as in its educational programs, activities, and services. The Board reaffirms its policy to comply with Title VI, The Age Act of 1975. The Americans with Disabilities Act of 1990, Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, The Elliott-Larsen Civil Rights Act, and all other applicable federal and state laws and regulations prohibiting discrimination.

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

### **Title IX Coordinator**

Superintendent  
Eaton Rapids Public Schools  
912 S. Greyhound Drive  
Eaton Rapids, Michigan 48827  
517.663.8155

Inquiries regarding compliance with Section 504 of the Rehabilitation Act of 1973, The Americans with Disabilities Act of 1990, and the age of 1975, should be directed to:

### **Section 504 Coordinator**

Director of Special Education  
Section 504 Coordinator  
Eaton Rapids Public Schools  
912 S. Greyhound Drive  
Eaton Rapids, Michigan 48827  
517.663.8155

# **2009 - 2010**

# **Career Pathways Program of Studies**

## **Eaton Rapids High School**

800 State Street  
Eaton Rapids, MI 48827  
517.663.2231  
FAX: 517.663.5727

## **Eaton Rapids Public Schools Board of Education**

### **Eaton Rapids Public Schools Central Administration**

Dr. William DeFrance      Superintendent  
Mr. Collin Smith            Controller

Mr. Jeff Allison  
Mr. Jon Althouse  
Mrs. Mary Boulanger  
Mr. Steven Platte  
Mr. Brian Ross  
Mr. Gary Wichman  
Mrs. Carolyn Wyckoff

### **Eaton Rapids High School Administration**

Mr. David Johnson            Principal  
Mr. Marv Maurer            Assistant Principal  
Mr. Jeff Dassance            Athletic Director

# **Eaton Rapids Public Schools**

## School District Mission

Our mission is to help all students become lifelong Learners. We will address this mission by:

- Employing a competent and caring staff
  - Providing a future-focused curriculum
  - Challenging learners to do their best
- Teaching learners to solve problems and understand the change process

# High School Program of Studies

The world of work is rapidly changing as existing jobs become more complex and new jobs demand increased levels of education. Students must acquire increased academic competencies, advanced technical skills, and greater problem solving abilities in order to become productive citizens in a highly competitive global economy. It is the goal of the Eaton Rapids schools to create a climate where expectations are high, tolerance exists for individual differences, global awareness is promoted, lifelong learning is valued, self-esteem is enhanced, and all Eaton Rapids community members have an opportunity to experience success.

The high school program of the Eaton Rapids Public Schools offers a challenging course of study, designed for students to recognize and achieve their academic and career potential. Through a coordinated sequence of academic and vocational courses, all students will be better prepared to see their post high school experience as an opportunity for continuing their education. As lifelong learners, Eaton Rapids High School graduates may continue their education at four-year colleges, community colleges, technical institutions, the military, or in apprenticeship/training programs as they strive to reach their own individual academic and career goals.

## Career Pathways

The Eaton Rapids High School program of studies is designed to offer students a pathway to success. As students enroll in Eaton Rapids High School they will select a career pathway designed to meet their academic potential and career interest. The Pathway selection will provide a focus, and the foundation, for the students' learning experience.







A career pathway is a system that creates well-marked "paths" of sequenced courses which provide both focus and direction to a student's learning experience. The pathway prepares the student for a goal-oriented future and puts purpose in learning. It offers a system of choice for each student.

Students will develop a four-year high school educational plan that will maximize their post high school potential and opportunities. Through an applied academic instructional program, all students will begin to see and value the relationship between their academic studies and real world application. This contextual learning experience will enable students to make informed decisions that will better match their interest and aptitudes with their academic experiences as they consider career options. Students will continue to meet with the counselors throughout high school to review their progress toward achieving their goals and to further refine their academic and career plans.

# Career Pathways

All students are encouraged to plan a high school schedule that supports their post high school goals. Our students have been introduced to the concept of career planning. A career Pathways framework has been implemented throughout the state to assist students in career decision-making.

## Career Pathways Definitions

<p><b>Arts and Communication</b></p> 	<p>Careers related to the humanities, the performing, visual, literary and media arts. These careers interest people who enjoy being creative. Examples include artists, journalists, industrial designers, musicians, photographers and theater technicians.</p>
<p><b>Business, Management, Marketing &amp; Technology</b></p> 	<p>Careers related to all aspects of business including accounting, business administration, finance, information processing, and marketing. Examples include accountants, business managers, salespersons, buyers, computer network administrators, secretaries and stock analysts.</p>
<p><b>Engineering/Manufacturing and Industrial Technology</b></p> 	<p>Careers related to the various technologies necessary to design, develop, install and maintain physical systems. Understanding and working with tools, equipment, and other kinds of machinery is important to people who have careers in this pathway. Examples include architects, airplane pilots, engineers, carpenters, technicians and mechanics.</p>
<p><b>Health Services</b></p> 	<p>Careers related to the promotion of health as well as the treatment of injuries and disease. Examples include physicians, nurses, pharmacists, health facility administrators, dental assistants, veterinarians, morticians and medical technicians.</p>
<p><b>Human Services</b></p> 	<p>Careers in childcare, civil service, education, hospitality, and the social services. Examples include postal worker, police officer, lawyer, teacher, fire fighter, employment counselor, and hazardous waste technicians.</p>
<p><b>Natural Resources and Agri-Science</b></p> 	<p>Careers related to natural resources, agriculture, and the environment. Examples include environmentalists, turf grass managers, farmers, landscape architects, plant scientists, marine biologists and agricultural equipment mechanics.</p>

# NCAA Requirements

If you are planning to enroll in college as a freshman and you wish to participate in Division I or Division II athletics, you must be certified by the NCAA Initial-Eligibility Clearinghouse. It is your responsibility to supply the Clearinghouse with the following documents:

1. Your completed and signed Student Release Form and fee
2. Your official transcript mailed directly from every high school you have attended
3. Your ACT or Sat scores

This process should begin at the end of your junior year in high school.

## *CORE UNITS REQUIRED FOR NCAA CERTIFICATION*

	Division I	Division II
English Core	4 years	3 years
Math Core	2 years	2 years
Science Core (including at least one year of lab science, if offered)	2 years	2 years
Social Studies Core	2 years	2 years
From English, Math or Science	1 year	2 years
Additional Core (English, Math, Science, Social Studies, Foreign Language, Computer Philosophy, Nondoctrinal Religion)	3 years	3 years
<b>TOTAL CORE UNITS REQUIRED</b>	<b>14</b>	<b>14</b>

Earn a sum of scores of at least 68 on the ACT or a combined score of at least 820 on the recentered SAT on national test date. For Division I: the minimum grade-point average in the 13 core courses and required ACT and SAT score vary according to the Initial-Eligibility Index below. This index applies to students enrolling as a college freshman during 1996-97 and thereafter who wish to participate in Division I athletics.

Core GPA	2.500	2.500	2.475	2.450	2.425	2.400	2.375	2.350	2.325	2.300	2.275	2.250	2.225	2.200	2.175	2.150	2.125	2.100	2.075	2.050	2.025	2.000
ACT Sum	68	68	69	70	70	71	72	73	74	75	76	77	78	79	80	80	81	82	83	84	85	86
RC SAT	820	820	830	840-50	860	860	870	880	890	900	910	920	930	940	950	960	960	970	980	990	1000	1000

## **Eaton Rapids High School Graduation Requirements Class of 2010**

The 2006/07 school year marks the beginning of trimester scheduling at Eaton Rapids High School. Formerly all student schedules were based upon a semester model that offered students the opportunity to select six classes each semester for a total of 12 classes and six credits per year. Over the course of 4 years students could earn 24 credits while taking 48 courses.

Under the trimester scheduling model our students will now be offered the opportunity to construct daily schedules of 5 classes during three terms or trimesters. Each class successfully completed will continue to be worth one half credit and students will therefore be capable of taking 15 classes and earning 7.5 credits each year resulting in 60 courses for thirty credits over a four year period.

The introduction of the trimester schedule will require that we establish a credit “phase in” for the students presently enrolled in Eaton Rapids High School. As a result of the increased credit opportunities the number of credits required for graduation for students graduating in 2007, 2008, 2009 and 2010 will increase proportionately according to the following schedule.

**\*Class of 2010 and beyond** (4 years of trimester – 30 credits) 30 credits possible w/28.5 required  
    **At the end of 9<sup>th</sup> grade – 6 credits**  
    **At the end of 10<sup>th</sup> grade – 13.5 credits**  
    **At the end of 11<sup>th</sup> grade – 20.5 credits**  
    **At the end of 12<sup>th</sup> grade – 28.5 credits**

**Additionally, the following adjustments in graduation requirements\* will become effective, as well:**

**English** – 4 credits for all students (Three credits must come from those classes designated as academic curriculum. Only one credit of an English elective may be used toward fulfilling the four-credit graduation requirement).

**Science** – 2 credits for the classes of 2007, 2008, and 2009

3 credits for the class of 2010 (Biology, Intro to Chemistry, Intro to Physics and ½ cr. Science elective

3 credits for the class of 2011 and beyond (Biology, Chemistry and Physics

**Math** – 3 credits for the class of 2010

4 credits for the class of 2011 and beyond

**Social Studies** – 3 credits for the class of 2010 and beyond

**Physical Education** – 1.5 credits for the class of 2010 and beyond (All 9<sup>th</sup> grade students are required to take Physical Education A/B. Medical exceptions will be allowed based on a written excuse from your physician).

**Computer Literacy** - .5 credits for all students (This requirement may be met by successfully completing one of the following courses: Computerized Accounting 2, Journalism 1, Computer Applications, BMA I/II/III Computer Art, Digital Photography & Yearbook Production. The following Lansing Community College classes will also be accepted: Graphics & Web Design, & Pre-Engineering CADD/CAM.

**Fine Arts** – 1 credit for all students (classes in instrumental or vocal music, drama, business, life management, visual arts and technical Education meets this requirement).

**Elective Credits** – Class of 2010 – **12.5**

\*The class of 2010 may be subject to additional increases in graduation requirements in the areas of **Mathematics** (4 credits) and **foreign language** (2 credits) pending the outcome of legislation currently under review in the state Legislature.

# Arts and Communication

## Careers in Journalism

Assistant Newswriter  
Assistant Production Manager  
Assistant Writer/Editor  
Author

Columnist  
Editor  
Journalism Technician  
Layout Planner

Media Announcer  
Newspaper Reporter  
Production Manager  
Publisher

Radio/TV Broadcaster  
Technical Writer  
Writer

## Graphic Technology Arts

Author  
Columnist  
Computer Graphic Technician  
Darkroom Technician

Editor  
Graphic Artist  
Layout Planner  
Media Announcer

Newspaper Reporter  
Printing Press Operator  
Production Manager  
Publisher

Radio/TV Broadcaster  
Screen Printing Machine Operator  
Technical Writer  
Writer

## Fine & Performing Arts

Accompanist  
Actor/Actress  
Art Director  
Artist  
Assistant Director  
Assistant Producer  
Band Orchestra Member

Carpet/Furniture Designer  
Cartoonist  
Choreographer  
Chorus Member  
Composer  
Dancer  
Director

Disc Jockey  
Fashion Designer  
Historian  
Illustrator  
Interior Designer  
Lighting Director  
Model

Musician  
Painter  
Producer  
Sculptor  
Set Designer  
Theater Technician  
Vocal Performer

# Arts and Communication

## Pathway Requirements

English 9, 10, 11, 12

Algebra I, Geometry, Algebra II

Biology, Chemistry, Physics

Civics/Economics, US History, World History

Computer Literacy

Fine/Practical Arts

Physical Education

## Related Elective Courses

English Electives

Psychology

Foreign Language

Global Issues

Instrumental Music

Music

Pre-Calculus

Sociology

Visual Arts

Vocal Music

# Arts and Communication

## Suggested 4 year Plan

### 9<sup>th</sup> Grade

**English 9/Adv. English 9**  
**Algebra I/Geometry**  
**Biology/Advanced Biology**  
**Civics/Economics**  
**Physical Education /Health**  
Freshman Connections  
Elective

### 10<sup>th</sup> Grade

**English 10/American Lit**  
**Geometry/Algebra II**  
**Chemistry**  
**US History**  
Elective  
Elective

### 11<sup>th</sup> Grade

**English 11**  
**Algebra II/PreCalculus**  
**Physics**  
**World History**  
Pathway Related Elective

### 12<sup>th</sup> Grade

**English 12**  
**Math**  
Elective  
Pathway Related Elective  
Pathway Related Elective  
Elective  
Elective

**\*Bold Items are part of graduation requirements**

# Business Management Marketing & Technology

## Accounting

Accountant  
Analysis Consultant  
Assistant Accountant  
Auditor  
Bank Teller  
Bookkeeper  
Budget Analyst

Buyer  
Certified Public Accountant  
Comptroller  
Credit Analyst  
Financial Analyst  
Hotel Manager

Loan Officer  
Stock Broker  
Certified Managerial Acct.  
Computer Information  
Systems Careers  
Computer Programmer

Data Processing Supervisor  
Systems Analyst  
Systems Designer

## Computer Information Systems

Computer Programmer  
Computer Service Technician  
Data Processing Supervisor

PC & Office Machine Repair  
PC Applications Clerk

Systems Analyst  
Systems Designer

## Marketing

Account Executive  
Advertising Director  
Agency Manager  
Art Director  
Assistant Buye  
Asst. Distribution Manager

Asst. Public Relations Officer  
Asst. Sales Manager  
Automobile Dealer  
Bank Manager  
Claims Examiner  
Entrepreneur

Lobbyist/Public Relations  
Manager  
Manufacturing Representative  
Marketing Research Specialist  
Media Buyer

Merchandise Displayer  
Purchasing Agent/Buyer  
Real Estate Broker  
Sales Representative  
Small Business Manager  
Trade Show Exhibitor

## Office Technologies

Administrative Assistant  
Administrative Service  
Bank Teller  
Billing Clerk  
Business Manager

Clerical Supervisor  
Court Report  
Credit Clerk  
Data Processing Manager  
Executive Assistant

General Office Clerk  
Legal Secretary  
Medical Secretary  
Para Legal  
Payroll Clerk

Receiving Clerk  
Receptionist  
Word Processing Specialist

# Business Management Marketing & Technology

## Pathway Requirements

English 9, 10, 11, 12

Algebra I, Geometry, Algebra II

Biology, Chemistry, Physics

Civics/Economics, US History, Government

Computer Literacy

Fine/Practical Arts

Physical Education

## Related Elective Courses

Accounting I & II

AP Calculus

English Elective

Foreign Language

Pre-Calculus

Psychology

Sociology

Business Administration

Business Law I/II

Introduction to Business

Journalism

Off Campus Vocational Classes:

Computer Repair/Electronics

Computer Maintenance Network Technician

Marketing & Management

Retail Marketing

Visual Arts Classes

Work Experience

# **Business Management Marketing & Technology**

## **Suggested 4 year plan**

### **9<sup>th</sup> Grade**

**English 9/Adv. English 9**  
**Algebra I/Geometry**  
**Biology/Advanced Biology**  
**Civics/Economics**  
**Physical Education/Health**  
**Freshman Connections**  
Elective

### **10<sup>th</sup> Grade**

**English 10/American Literature**  
**Geometry or Algebra II**  
**Chemistry**  
**US History**  
Elective  
Elective  
Elective

### **11<sup>th</sup> Grade**

**English 11**  
**Algebra II or PreCalculus**  
**Physics**  
**World History**  
Pathway Related Elective  
Elective  
Elective

### **12<sup>th</sup> Grade**

**English 12**  
**Math**  
Pathway Related Elective  
Pathway Related Elective  
Elective  
Elective  
Elective

# Engineering/Manufacturing and Industrial Technology

## Building Construction Careers

Assistant Builder  
Brick/Cement Mason  
Builder  
Building Contractor

Building Inspector  
Building Superintendent  
Carpenter  
Estimator

Furniture Maker  
Painter/Finisher  
Paper Hanger  
Plaster/Dry Wall Installer

Scheduler  
Surveyor's Helper

## Drafting & Design Technology Careers

Architect  
Apprentice Machine Designer

CAD  
Design Engineer

Landscape Architect  
Machine Designer

Mold Designer  
Tool & Die Designer

## Engineering & Industrial Careers

Audio Service Technician  
Camera Operator  
Computer Division Manager

Computer Technician  
Electrical Engineer  
Electronics Manager

Industrial Elect. Apprentice  
Sound Director  
Video/Radio/TV Technician

## Manufacturing Careers

Aeronautical Engineer  
Agricultural Engine  
Automated Equipment Tech  
Automated Systems Programmer  
Chemical Engineer

CNC Operator  
Die/Mold Engineer  
Industrial Engineer  
Industrial Maint Mechanic App.  
Machine Maintenance Tech

Machine Repair Apprentice  
Mechanical Engineer  
Model Maker  
Nuclear Engineer  
Plastics Engineer

Precision Machinist  
Production Tech Manager  
Quality Control Engineer  
Tool & Die Maker

## Research Occupation:

### Computers, Mathematics & Operations

Actuary  
Agricultural Economist  
Applied Mathematician  
Artificial Intelligence  
Asst. Social Researcher

Chemical Technician  
Computer Info Systems Asst.  
Computer Scientist  
Computer Programming Asst.  
Market Research Analyst

Mathematician  
Network Engineer/Analyst  
Nuclear Technologist  
Physicist  
Power Production Technician

Rate Analyst  
Social Scientist  
Sociologist  
Statistician  
Urban Planner

## Transportation Technology

Aeronautical Technician  
Aircraft Mechanic  
Aircraft Pilot-Commercial  
Air Traffic Controller  
Auto Body Owner/Manager

Auto Body Technician  
Auto Mechanic Master  
Auto Service Manager  
Automotive Engineer  
Aviation Maintenance Manager

Bus/Taxi/Limo Driver  
Collision Estimator  
Flight Engineer(Commercial)  
Marine Mechanic  
Motorcycle Mechanic

Railroad Engineer  
Truck Drive  
Trucking Fleet Manager

# Engineering/Manufacturing and Industrial Technology

## Pathway Requirements

English 9,10, 11, 12

Algebra I, Geometry, Algebra II, PreCalculus

Biology, Chemistry, Physics, AP Chemistry

Civics/Economics, US History, World History

Computer Literacy

Fine/Practical Arts (Technology Education)

Physical Education

## Related Elective Courses

AP Calculus

Technology Education Classes

# Manufacturing and Industrial Technology Suggested 4 year plan

## 9<sup>th</sup> Grade

English 9/Adv. English 9  
Algebra I/Geometry  
Biology/Advanced Biology  
Civics/Economics  
Physical Education/Health  
Freshman Connections  
Elective

## 10<sup>th</sup> Grade

English 10  
Geometry/Algebra II  
Chemistry  
US History  
Elective  
Elective  
Elective

## 11<sup>th</sup> Grade

English 11  
Algebra II/PreCalculus  
Physics  
World History  
Pathway Related Elective  
Elective  
Elective

## 12<sup>th</sup> Grade

English 12  
Math  
Physics/AP Chemistry  
Elective  
Computer Science  
Elective  
Elective

# Health Sciences

## Health Occupations

Audiologist  
Caseworker  
Certified Nursing  
Dental Hygienist  
Dental Laboratory

Dietician/Nutritionist  
Emergency Medical Tech (EMT)  
Fitness Coach  
Hearing Testing Technician  
Nuclear Medicine Technician

Nurse (LPN)  
Pharmacist  
Physical Therapist  
Radiologist  
Registered Nurse

Social Worker  
Speech Pathologist  
Sports Medicine Therapist  
Ultrasound Technician

**And...**

Professional Plus Careers (i.e., Physician, Surgeon, Internist, etc.)

# Health Sciences

## Pathway Requirements

English 9,10, 11, 12

Algebra I, Geometry, Algebra II, PreCalculus

Biology, Chemistry, Physics, Human Anatomy, Physics, AP Biology

Civics/Economics, US History, World History, Psychology, Sociology

Computer Literacy

Fine/Practical Arts

Physical Education

## Related Elective Courses

Foreign Language

Off-Campus Vocational Classes:

Personal Conditioning

Emergency Medical Technology & Fire Science

Child Development

Pre-Allied Health

Personal Conditioning

Personal/Family Living

Psychology

Sociology

# Health Sciences

## Suggested 4 year plan

### 9<sup>th</sup> Grade

**English 9/Adv. English 9**  
**Algebra I, Geometry**  
**Biology/Advanced Biology**  
**Civics/Economics**  
**Physical Education/Health**  
**Freshman Connections**  
Elective

### 10<sup>th</sup> Grade

**English 10**  
**Geometry, Algebra II**  
**Chemistry**  
**US History**  
Elective  
Elective  
Elective

### 11<sup>th</sup> Grade

**AG&C/ACT Prep/American Lit.**  
**Algebra II, Pre-Calculus**  
**Physics/Human Anatomy**  
**World History**  
Pathway-Related Elective  
Elective  
Elective

### 12<sup>th</sup> Grade

**Academic English**  
Pre-Calculus, AP Calculus  
Human Anatomy/AP Biology or AP Chemistry  
Pathway-Related Elective  
Pathway-Related Elective  
Elective

# Human Services

## Child and Adult Care

Caseworker  
 Child Care Administrator  
 Child Care/Nursery Attendant  
 Cosmetologist/Barber

Day Care Assistant or Director  
 Early Childhood Educator  
 Home Care Attendant  
 Nursing Home Administrator

Nursing Home Worker  
 Pre-School Aide  
 Pre-School Teacher  
 Recreational Supervisor

Recreational Technician  
 Social Worker

## Hospitality and Food Services

Assistant Conference Manager  
 Assistant Hotel/Motel Manager  
 Baker/Chef/Bartender  
 Butcher  
 Car Dealer

Cashier  
 Concierge  
 Conference Manager  
 Convention Director  
 Cook

Cruise/Tour Director  
 Executive Chef  
 Flight Attendant  
 Food Service Manager  
 Front Desk Manager

Home Economist  
 Hotel/Motel Manager  
 Special Events Coordinator  
 Tourism Director  
 Travel Agent

## Public Safety & Protective Services

Armed Forces  
 Body Guard  
 Corrections/Prob./Parole Officer  
 FBI Agent

Fire Fighter  
 Hazardous Materials Tech  
 Lawyer/Judge  
 Officer/Police Chief

Pest Control Technician  
 Private Detective  
 Public Safety Officer  
 Security Director

Sheriff/Detective  
 State Police Commander  
 State Police Officer

## Teaching Occupations

College Instructor/Professor  
 Counselor/Social Worker  
 Elementary Ed Teaching Asst

Elementary Teacher (K-6)  
 Librarian  
 Library Assistant

Paraprofessional  
 Secondary Ed. Teaching Asst  
 Secondary Teaching (7-12)

Special Ed. Teacher (K-12)

# Human Services

## Pathway Requirements

English 9,10, 11, 12

Algebra I, Geometry, Algebra II

Biology, Chemistry

Civics/Economics, US History, World History, Psychology, Sociology

Computer Literacy

Fine/Practical Arts

Physical Education

## Related Elective Courses

Accounting I, II

Foreign Language

Global Issues

PreCalculus

World History

# Human Services

## Suggested 4 year plan

### 9th Grade

**English 9/Adv. English 9**  
**Algebra I, Geometry**  
**Biology/Advanced Biology**  
**Civics/Economics**  
**Physical Education/Health**  
Freshman Connections  
Elective

### 10<sup>th</sup> Grade

**English 10**  
**Algebra II, Geometry**  
**Chemistry**  
**US History**  
Elective  
Elective  
Elective

### 11<sup>th</sup> Grade

**AG&C/ACT Prep/American Lit.**  
**Algebra II, PreCalculus**  
**Physics**  
**World History**  
Pathway-Related Elective  
Pathway-Related Elective  
Elective

### 12<sup>th</sup> Grade

**Academic English**  
Math  
Psychology, Sociology  
Pathway-Related Elective  
AP Biology  
Pathway-Related Elective  
Elective  
Elective

# Natural Resources

## Agri-Science

Agricultural Extension Agent  
Agricultural Scientists  
Agricultural Chemical Technician  
Agricultural Technician  
Conservation Officer

Coop Extension Service  
Farm Manager  
Farmer  
Fish & Wildlife Specialist  
Fisher Technician

Floral Designer  
Forester  
Garden's Manager  
Grounds Keeper  
Horticultural Technician

Landscape Design Tech  
Landscape Gardener  
Limnologist  
Naturalist  
Park Manager  
Soil Conservationist

# Natural Resources

## Pathway Requirements

English 9,10, 11, 12

Algebra I, Geometry, Algebra II

Biology, Chemistry, Physical Science, Botany, Environmental Science

Civics/Economics, US History, World History

Computer

Fine/Practical Arts

Physical Education

### Related Elective Courses

Foreign Language

Global Science

Physics

Botany

Precocious

Global Issues

### Related Elective Courses

Technology Education Classes

Off Campus Vocational Class

\*Horticulture and Landscape Design

# Natural Resources

## Suggested 4 year plan

### 9<sup>th</sup> Grade

**English 9/Adv. English 9**  
**Algebra I, Geometry**  
**Biology/Advanced Biology**  
**Civics/Economics**  
**Physical Education/Health**  
Freshmen Connections  
Elective

### 10<sup>th</sup> Grade

**English 10**  
**Geometry, Algebra II**  
**Chemistry**  
**US History**  
Elective  
Elective  
Elective

### 11<sup>th</sup> Grade

**AG&C/ACT Prep/American Lit.**  
**Algebra II, PreCalculus**  
**Physics**  
**World History**  
Pathway-Related Elective  
Elective  
Elective

### 12<sup>th</sup> Grade

**Academic English**  
PreCalculus, AP Calculus  
Physics/AP Biology/AP Chemistry  
Elective  
Pathway-Related Elective  
Pathway-Related Elective  
Elective

# Four Year Planning Guide

## Grade 9

## Grade 10

Term 1 Course	Term 2 Course	Term 3 Course	Term 1 Course	Term 2 Course	Term 3 Course

## Grade 11

## Grade 12

Term 1 Course	Term 2 Course	Term 3 Course	Term 1 Course	Term 2 Course	Term 3 Course

# Course Descriptions 2009-2010

## Business

**Business courses may qualify as a *Practical Art* or *Computer* credit.**

**Students must have .5 credits of Computers to graduate.**

### **Computer Applications**

Recommended grade level: 9-10-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5 /Computer or Practical Art

A basic computer class that begins with a keyboard review & progresses to Microsoft programs, along with the use of the internet for research such as Excel, Spreadsheet and Power Point.

### **Business Administration**

Recommended grade level: 10-11-12

Prerequisite: Computer App or Web

Design: Digital Imaging

Length of Course: 2 or 3 Terms/Must take at least 2 terms. *Recommended for 3 Terms*

Credit: .5 per term/Computer or Practical Arts

Students will apply skills that they learned in Digital imaging, Photography, and Desktop Publishing to create a business model. New topics will include Viral Marketing, Business, Management, Employability & Career Development Entrepreneurship.

### **Introduction to Business A**

Recommended grade level: 9-10-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5/Elective

This course is designed to introduce students to the fundamentals of business activities in our society. Topics include: the Development of Products, Service Types of business and World Trade.

### **Introduction to Business B**

Recommended grade level: 9-10-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5/Elective

This class is a continuation of the Intro A class with an emphasis on new topics including Advertising, Banking, Marketing, Stocks, Real Estate, Auto Insurance, and Career Exploration.

### **Accounting 1**

Recommended grade level: 10-11-12

Prerequisite: None

Length of Course: Two Terms

Credit: .5 per term/Elective

Students will learn how to record the flow of money into and out of a company. You will also learn methods for keeping track of supplies, merchandise, and employee payroll. Computer business simulations are utilized to enhance the learning experience.

### **Computerized Accounting 2**

Recommended grade level: 11-12

Prerequisite: Accounting 1

Length of Class: Two Terms

Credit: .5 per term/Computer

This 2<sup>nd</sup> year course deals with more advanced methods of accounting. Students are presented with complex situations encountered in business and will learn how to use new and sophisticated accounting procedures along with computerized accounting systems to solve real life business problems.

### **Retail Marketing: Sports & Entertainment**

Recommended grade level: 11-12  
Prerequisite: None  
Length of Course: Three Terms  
Credit .5 per term/Elective

This class offers students an opportunity to learn to run and operate a business. Students will learn the latest in marketing techniques as applied to sports & entertainment events, products, securities, and licensing. Students will develop, promote, and market actual profit-making sporting and entertainment events.

### **Business Law 1**

Recommended grade level: 10-11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5/Elective

This class is designed to inform all students about the law and legal procedures through class discussion, case studies, presentations, law videos, projects, internet research and mock trials. Topics covered include constitutional law, criminal law, crimes & punishment, law enforcement, civil lawsuits, torts, and laws to protect minors.

### **Business Law 2**

Recommended grade level: 11-12  
Prerequisite: Business Law  
Length of Course: One Term  
Credit: .5/Elective

This class is a continuation of the Business Law 1 class with an emphasis on new topics of law including family law-marriage, divorce, adoption, contract law, employment law-discrimination at work, injuries on the job, wages and promotion.

### **Desktop Publishing/Yearbook**

Recommended grade level: 10-11-12  
Prerequisite: Journalism, Photo or approval  
Length of Course: One Term  
Credit: .5/Practical Art/Computer

Students of ERHS are invited to participate in the publication of the Eatonian, our high school yearbook.

### **Information Technology**

Career Pathways: Information Technology, Visual Communications Technology

Web Design coursework: Students should plan on taking at least 2 selections from the Information technology courses in any given year. These vocationally funded classes are not introductory computer classes. Articulation credit may

be available for college for students who have mastered the competencies.

### ***Web Design: Digital Imaging***

Recommended grade level: 9-10-11-12  
Prerequisite: Strong background in Windows File Management or Computer Application  
Length of Course: One Term  
Credit: .5/Practical Art/Computer

An introduction to manipulation of photographic images for print and web. Topics include photo correction, file formats, layers, and filters. Students will design bottle labels, scrapbook covers, posters, and CD covers. Software used is **Adobe Photoshop**.

*Prerequisite is strong background in Windows file management as demonstrated by successful completion of Computer Applications.*

### ***Web Design: Web Page Layout***

Recommended grade level: 9-10-11-12  
Prerequisite: Strong background in Windows File Management or Computer Application  
Length of Course: One Term  
Credit: .5/Practical Art/Computer

A study of preparation and production of material for presentation on the web. Students will create practice websites and make their own web page. Software used is **Adobe Golive**.  
*Prerequisite is strong familiarity with Adobe Photoshop as demonstrated by successful completion of Web Design: Digital Imaging, or Digital Photography.*

### ***Advanced Web Design: Motion and Animation***

Recommended grade level: 10-11-12

Prerequisite: Web Design or Digital Photography

Length of Course: 2 of 3 terms/must take at least 2 terms

Credit: .5/Computer/Practical Art

A course in Manipulation and preparation of moving objects and animation for the web. Software used is **Adobe Macromedia Flash**.

Prerequisite is successful Web Design coursework such as Web Design: Web Page Layout or equivalent.

### ***Advanced Web Design: Production Studio***

Recommended grade level: 11-12

Prerequisite: Proficiency in digital design as demonstrated by the completion of Computer Art II, Web Design: DI, or Digital Two

Length of Course: One Term(course may be repeated each trimester as projects continually change)

Credit: .5

This course asks students to combine graphic design with business skills to create products for real-world use. Students will demonstrate abilities before applying for positions within the production studio simulation. Once the simulation begins, designers will work in teams to complete job

requests from the school and local community.

Design projects may include: Posters, Brochures, T-shirts, Websites, Logos, etc (Software used: Photoshop, Dreamweaver, Fireworks, Illustrator, and Flash)

### **Web Design: Web Publishing**

Recommended grade level: 10-11-12

Prerequisite: Web Design, Digital Imaging

Length of Course: 2 of 3 terms/must take at least 2 terms

Credit: .5/Computer/Practical Art

Introduction to the use of layout software for print layout and design, as well as conversion to web presentation. Software used is **Adobe Design**.

Prerequisite: Web & Design: Digital Imaging, good language art skills and computer skills demonstrated by a GPA of 2.5 or above.

### **Photo**

#### **Intro to Photography**

Recommended grade level: 10-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5/Practical Arts

You will learn how to use a digital camera, upload images to a computer, manipulate images in Photoshop and more.

Students will also be studying the history of photography and other professional work as well as writing about and critiquing photographic images.

### **Digital Two**

Recommended grade level: 10-11-12

Prerequisite: Digital One

Length of Course: One Term

Credit: .5/Practical Arts

Digital Two will build upon your experiences in Digital One. We will continue to explore digital cameras, Photoshop, advanced shooting techniques, studio lighting, video and layout and design. We will also be providing photography services for the High School and the surrounding community.

### **Desktop Publishing**

Recommended grade level: 10-11-12

Prerequisite: Journalism, Photo or approval

Length of Course: One Term

Credit: .5/Practical Art/Computer

Desktop is an introduction to manipulation of photographic images for print and web. Topics include photo correction, file formats, layers, and filters.

## **Yearbook**

Recommended grade level: 10-11-12

Prerequisite: Journalism, Photo or approval. Students are strongly encouraged to take Web Design: Computer Graphics for Electronic Journalism.

Length of Course: One Term

Students are encouraged to sign up for 3 terms. Students are also invited to participate in the publication of the Eatonian, our high school yearbook.

## **Journalism (English elective)**

Recommended grade level: 10-12

Prerequisite: English 9A & B

Length of Course: One Term

Credit: .5

This course is designed for students interested in exploring the various aspects of journalism. Students will examine the elements involved in producing a newspaper publication, will gain skills necessary for understanding and gathering news information and, with the basic writing skills learned, will gain practical experience writing news stories, including features, sports, and opinion pieces.

## **Newspaper Production A, B & C (English elective)**

Recommended grade level: 11-12

Prerequisite: Journalism

Length of Course: One Term

Credit: .5

Newspaper production is an advanced laboratory course for students to produce the school newspaper. While all three terms of Newspaper Production are not required, they are strongly recommended for any student wishing to be an editor for the school newspaper

**(Must have 4 credits to graduate)**

**English**

**English 9A Elements of Language/Literature (NCAA Core)**

Recommended grade level: 9  
Prerequisite: 8<sup>th</sup> grade English  
Length of Course: One Term  
Credit: .5

English 9A is a required course for freshmen with grade-level reading ability. The focus of the class will be on the elements of language (grammar/usage). Students will respond to literature (non-fiction and short stories) through formal and informal essays as well as creative responses. The ACT writing format will be introduced.

**English 9B Elements of Literature/Language (NCAA Core)**

Recommended grade level: 9  
Prerequisite: 8<sup>th</sup> grade English  
Length of Course: One Term  
Credit: .5

English 9B is a required course for freshmen with grade-level reading ability. Students will develop a greater appreciation of literature through a thematic approach to drama, poetry, and the novel. The focus of the class will be on literary analysis and reflective composition. The ACT writing format will be introduced.

**Advanced English 9 (NCAA Core)**

Recommended grade level: 9  
Prerequisite: Teacher Recommendation (A/B average in 8<sup>th</sup> grade English)  
Length of Course: Two Terms  
Credit: 1

Advanced English 9 is an extension/enrichment of the English 9 curriculum with an emphasis on literature and analytical writing. It is intended for students desiring a strong college prep curriculum.

**English 10A Elements of Language/American Literature (NCAA Core)**

Recommended grade level: 10  
Prerequisite: Recommended successful completion of both English 9A and 9B  
Length of Course: One Term  
Credit: .5

English 10A is a required course for sophomore students with grade-level reading ability. Its purpose is to provide a logical progression of the skills acquired in English 9A and English 9B. Students will review, reinforce, and apply their understanding and command of the elements of language (grammar/usage). Students will read American literature and write a variety of forms including narrative, expository, and persuasive.

**English 10B Elements of Literature/American Literature (NCAA Core)**

Recommended grade level: 10  
Prerequisite: Recommended successful completion of both English 9A and 9B  
Length of Course: One Term  
Credit: .5

English 10B is a required course for sophomore students with grade-level reading ability. Its purpose is to provide a logical progression of the literary and composition skills acquired in English 9A and English 9B. Students will develop a greater appreciation of American literature through a thematic approach to non-fiction, poetry, drama, short stories, and the novel. The focus of the class will be on literary analysis and reflective composition. The ACT writing format will be emphasized.

**Honors American Literature & Composition A (Early America ~ 1840) & B (1840 ~ 1910) (NCAA Core)**

Recommended grade level: 10-11-12

Prerequisite: Teacher recommended (A/B average in English 9/10 strongly recommended); Advanced Grammar

Length of Course: One Term

Credit: .5

This is a literature course, which is combined with a series of writing assignments. The course will present a survey of American literature organized in a chronological framework. **This is a class strongly recommended for any student planning to attend a four year college/university.**

**English 11A Literature & Composition/ACT Prep (NCAA Core)**

Recommended grade level: 11-12

Prerequisite: Successful completion of English 10A/B, American Literature or concurrently

Length of Course: One Term

Credit: .5

This one term course is designed to improve language and technical writing skills that are tested by the ACT and SAT tests. An intense study of grammar and mechanics, it will emphasize the grammar, reading, vocabulary and persuasive writing skills that constitute the language arts, reading, and writing standardized tests. **This is a strongly recommended course for all juniors** as they prepare for the ACT. It may be

taken concurrently with American Literature or British Literature.

**English 11B Literature & Composition (NCAA Core)**

Recommended grade level: 11-12

Prerequisite: Successful completion of English 10A/B

Length of Course: One Term

Credit: .5

English 11B Literature and Composition provides a logical, structured progression for the skills and knowledge acquired in English 10A and 10B. Instruction and practice will be provided toward increasing proficiency in drawing inferences from American literature and interpreting facts and extending the meanings of literary selections presented in class.

**English 12A (NCAA Core)**

Recommended grade level: 12

Prerequisite: Successful completion of English 11A/B

Length of Course: One Term

Credit: .5

English 12A is a senior-level literature course combined with a series of writing assignments designed to develop composition skills and also present an array of literature around the world including plays, short stories, poetry and novels.

**English 12B/Senior Pathways (NCAA Core)**

Recommended grade level: 12

Prerequisite: Successful completion of English 11A/B

Length of Course: One Term

Credit: .5

English 12B/Senior Pathways is a senior level course where students will develop research, presentation, reading, and writing skills through investigating areas of individual interest. Students are encouraged to become lifelong learners who are curious about the world and their places in it. Course evaluations include a portfolio, multimedia presentations, and reflective writing.

**Honors British Literature A (449 ~ 1625) & B (1625 ~1837) (NCAA Core)**

Recommended grade level: 11-12

Prerequisite: American Literature

Length of Course: One Term

Credit: .5

This is a literature course, which is combined with a series of writing assignments. The course will present a survey of British literature organized in a chronological framework. **This is a class strongly recommended for any student planning to attend a four year college/university.**

**Classic Novels A & B (NCAA Core)**

Recommended grade level: 12

Prerequisite: American Literature

Length of Course: One Term or two terms

Credit: .5 each term

This course is intended for college prep students who love literature and would like to supplement their knowledge of

Literature classes previously taken. It will focus on both traditional and contemporary classes of American, British and World Literature.

**AP English Literature (NCAA Core)**

Recommended grade level: 12

Prerequisite: British Literature or Department Approval

Length of Course: One year

Credit: 1.5

This year long course, which includes an honor point when computing each final term grade, better prepares students for the Advanced Placement English tests offered in the spring of their senior year. Although the emphasis will be upon responding to literature, this should help students prepare for both English Literature and Composition tests and the English Language and Composition test.

**Advanced Composition – College Writing Workshop (NCAA Core)**

Recommended grade level: 12

Prerequisite: Successful completion of English 11A/B, American Literature

Length of Course: One Term

Credit: .5

This writing workshop course will focus on various forms of essay and technical writing necessary for successful college. Say in its personal, descriptive, analytical, and argumentative/persuasive forms as well as research writing with an introduction to MLA-style citation.

**Courses currently not offered:**

Public Speaking

Creative Writing

## *Fine Arts*

*(Must have 1 credit of Fine and/or Practical Art to graduate)*

### **Art**

**(Students may elect no more than 3 Terms of Art.)**

#### **Basic Art A**

Recommended grade level: 9-10-11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5/Fine Arts

Intro to the visual arts – don't have to be a Picasso to join us! Units include design, drawing, painting, art appreciation, and pottery. *New!* Additional material in computer –aided two-dimensional and three-dimensional design.

#### **Basic Art B**

Recommended grade level: 9-10-11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5/Fine Arts

A continuation of the Basic Art series using different materials and covering different topics and techniques (see Basic Art A). Areas to be covered include self-expression/the creative process, drawing (the figure, animation), ceramics (mosaic, low relief), art appreciation (famous museums), and fibers (batik/papermaking/weaving). Students may take this course for one term or with Basic Art A.

#### **Computer Art**

Recommended grade level: 9-10-11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5/Computer/Fine Arts

This class will be taught as an introduction to print design. Print design includes editorial layout, graphics, illustrations, poster design, brochure design, album design, etc. Projects would reflect mock commercial art jobs and would combine traditional art techniques with digital processes. A final portfolio exit review will be required.

#### **2D Art**

Recommended grade level: 10-11-12  
Prerequisite: Basic Art A, B, or C or approval  
Length of Course: One Term  
Credit: .5/Fine Arts

Designed to further both the general and vocational student's art experience in the more specific areas of drawing & painting. Units include advanced drawing, pen and ink, watercolor, pastel, and acrylic painting.

#### **2D II (Offered as Independent Study Only)**

Recommended grade level: 10-11-12  
Prerequisite: 2D  
Length of Course: One Term  
Credit: .5/Fine Arts

A continuation of 2D Art-but greater concentration on independent project and advanced concepts and ideas. This course must be taken during the same hour that 2D Art is offered.

#### **3D Art**

Recommended grade level: 10-11-12  
Prerequisite: None/Basic Art A is suggested  
Length of Course: One Term  
Credit: .5/Fine Arts

This course is an investigation of three-dimensional art techniques through pottery, sculpture, and low relief methods spread over an entire term. Units in this term include review of basic techniques (new students)/tool technique/glaze technique,\* cultural unit (African Art/Egyptian Art/the Americas), wheel/abstraction, casting (low relief), jewelry (ceramic), and (if time) an independent project. \*first unit varies depending on what experience student has

### **3D II (Offered as Independent Study Only)**

Recommended grade level: 10-11-12

Prerequisite: 3D Art

Length of Course: One Term

Credit: .5/Fine Arts

This course is a continuation of 3D Art—different/additional materials and units will be added, including a cultural unit in European/Asian pottery, and construction of hand-made and computer/machined tiles. If you've already taken 3D Art, this is an opportunity to keep working in clay! This course must be taken during the same hour that 3D Art is offered.

### **Not offered 2008/2009**

Basic Art B

Computer Art A

## **Band**

### **Jazz Band**

Recommended grade level: 9-10-11-12

Prerequisite: Audition with the director

Length of Course: One Term

Credit: .5/Fine Arts

An instrumental music class that will attempt to develop and broaden the musical abilities of students interested in jazz, pop, rock, etc. The Jazz Band performs a minimum of three concerts, a jazz festival and various special events.

### **Marching Band**

Recommended grade level: 9-10-11-12

Prerequisite: Audition with the director and/or Middle School Director's approval

Length of Course: Three Terms are recommended

Credit: .5/Fine Arts

The Eaton Rapids High School Bands are composed of instrumental musicians who have previously been a member of this band; incoming freshmen who have passed all 8<sup>th</sup> grade requirements, or students new to Eaton Rapids who have demonstrated their musical abilities to the director. All students chosen for membership must: (1) attend a one-week marching band camp in mid-August, (2) attend all scheduled extra rehearsals and performances and (3) supply white shoes, socks, shirt and gloves and summer uniform, as specified by the director. The marching band performs at a minimum of four home football games, a minimum of four parades, and various special events such as marching festivals and contests. For the second and third terms, all members will be divided into the Wind Ensemble or Wind Symphony. The descriptions for both ensembles follows: The **Wind Symphony** is an instrumental ensemble designed to provide musicians with more opportunities to perform literature of a high difficulty level. The

wind symphony performs at a minimum of two concerts, the MSBOA Band and orchestra festival, commencement ceremony and various special events such as exchange concerts, assemblies, and for area civic organizations. The **Wind Ensemble** is a select instrumental ensemble designed to provide advanced musicians with more opportunities to play difficult literature than available in Wind Symphony. Each musician must be proficient on his or her instrument on a soloist level and must be available to study privately and attend the MSBOA Solo and Ensemble festival. The Wind Ensemble follows a similar performance schedule as the Wind Symphony outline above. Students are placed in Wind Symphony & Wind Ensemble by the band director.

### **Music Appreciation A & B**

Recommended grade level: 9-10-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5/Fine Arts

This class is designed to introduce students to the musical arts. Students will learn about the cultural origins of music with lessons in rhythm, movement, composition, expression, performance evaluation and the impact and power of music in our lives.

## **Choir**

### **Varsity Choir**

Recommended grade level: 9-10-11-12  
Prerequisite: None  
Length of Course: Up to 3 Terms  
Credit: .5 per term/Fine Arts

Varsity Choir is a mixed choral ensemble designed for students who are interested in vocal music.

### **Sweet Harmony**

Recommended grade level: 9-10-11-12  
Prerequisite: Audition with director  
Length of Course: Up to 3 Terms  
Credit: .5 per term/Fine Arts

Sweet Harmony is an advanced, treble choral ensemble designed for female students who are interested in furthering their skills in vocal music.

## **Chamber Choir**

Recommended grade level: 9-10-11-12  
Prerequisite: Audition with director  
Length of Course: Up to 3 Terms  
Credit: .5 per term/Fine Arts

Chamber Choir is an advanced, mixed choral ensemble designed for students who are interested in furthering their skills in vocal music.

## **Drama**

Recommended grade level: 9-10-11-12  
Prerequisite: None  
Length of Course: Up to 3 Terms  
Credit .5/Fine Arts

This class is designed to expose students to the many different areas and aspects of drama. Topics covered include: basic elements of drama, drama history, simple pantomime, improvisation, character analysis, blocking, stage makeup, basic lighting and stage directions, plot development, and play writing.

## **Life Management**

### **Personal & Family Living (NCAA Core)**

Recommended grade level: 11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5/Practical Arts

This class is designed to help 11<sup>th</sup>/12<sup>th</sup> grade student's better understand the development of personalities, character and their importance in developing friendships, dating, love and commitment.

### **Child Development & Parenting**

Recommended grade level: 11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5/Practical Arts

This class explores the physical, emotional, social, and intellectual growth of the child from conception to school age.

## Mathematics

(Credits required to graduate: Class of 2009 and Class of 2010 – 3 credits

Class of 2011 and beyond – 4 credits of the following; Algebra, Geometry, Algebra II, and 1 credit of an additional math course)

### Algebra 1 A/B/C

commended grade level: 9

Prerequisite: Pre-Algebra B or higher 8<sup>th</sup> grade math

Length of Course: Two Terms

Credit: .5 per term

This course builds upon a number of key algebraic topics assumed to have been developed in the middle grades, namely a deep knowledge of linear patterns of change and familiarity with nonlinear patterns such as exponential and quadratic.

### Advanced Algebra 1 A/B

Recommended grade level: 9, Teacher Recommendation

Prerequisite: 8<sup>th</sup> grade math

Length of Course: Two Terms

Credit: .5 per term

This course will cover the same topics as Algebra 1 A/B/C in two terms.

### Geometry A/B/C

Recommended grade level: 9-10

Prerequisite: Algebra 1 or teacher-recommendation

Length of Course: Two Terms

Credit: .5 per term

This course builds on a number of key geometric topics developed in the middle grades, namely relationships between angles, triangles, quadrilaterals, circles, and simple three-dimensional shapes.

### Advanced Geometry A/B

Recommended grade level: 9-10

Prerequisite: Advanced Algebra 1 or teacher recommendation

Length of Course: Two Terms

Credit: .5 per term

This course will cover the same topics as Geometry A/B/C in two terms.

### Algebra 2 A/B/C/D

Recommended grade level: 10-11-12

Prerequisite: Algebra 1 & Geometry or concurrent with Geometry by teacher recommendation

Length of Course: Two Terms

Credit: .5 per term

Students will study linear, quadratic, polynomial, exponential and logarithmic functions. This will be covered in 2 years.

### Advanced Algebra 2 A/B

Recommended grade level: 10-11-12

Prerequisite: Geometry

Length of Course: Two Terms

Credit: .5 per term

This course will cover the same topics as Algebra 2 A/B/C/D but at a much faster pace.

### Pre-Calculus 1

Recommended grade level: (10)-11-12

Prerequisite: Geometry & Algebra 2 or teacher recommendation. Recommended C or better in Algebra 2 and Geometry

Length of Course: One Term

Credit: .5 per term

This course is a preparation for Calculus. The study of topics, concepts, and procedures of Precalculus deepens students' understanding of algebra and extends their ability to apply algebra concepts and procedures at higher conceptual levels, as a tool and in the study of other subjects.

### **Probability & Statistics**

Recommended grade level: 11-12

Prerequisite: Algebra 2

Length of Course: One Term

Credit: .5 per term

This course develops basic properties of probability with its extensions into use and interpretation of statistical information. *A scientific calculator will be needed for this course.*

### **Trigonometry**

Recommended grade level: (10)-11-12

Prerequisite: Pre-Calculus

(Recommended C or better in Geometry & Algebra 2)

Length of Course: One Term

Credit: .5

This course develops an in depth understanding of the theory and application of trigonometry and its functions.

### **Advanced Placement Calculus**

Recommended grade level: 11-12

Prerequisite: Pre-Calculus and

Trigonometry (Recommended B+ or Better in Pre-Calculus and Trigonometry)

Length of Course: Three Terms

Credit: 1.5

This is a college level course of Calculus. The optional AP test, given in May, allows students to also earn college credit.

## FOREIGN LANGUAGE

*(2-3 years strongly recommended - required by some universities)*

### **Spanish 1 (NCAA Core)**

Recommended Grade Level: 9-10-11  
(Not recommended but available for seniors)  
Prerequisite: None  
Length of Course: Two terms  
Credit: .5 per term

Spanish 1 introduces students to the Spanish language through the four skills of listening, speaking, reading and writing. Cultural information about the Spanish-speaking world including geography, history, music and customs is also introduced with a special emphasis on Mexico.

### **Spanish 2 (NCAA Core)**

Recommended Grade Level: 10-11-12  
Prerequisite: Spanish 1 or teacher approval  
Length of Course: Two terms  
Credit: .5 per term

Spanish 2 builds on what was learned in Spanish 1. Students improve their skills in listening, speaking, reading and writing. Grammar study, vocabulary building and writing compositions are emphasized. Cultural information emphasizes Spain

### **Spanish 3 (NCAA Core)**

Recommended Grade Level: 11-12  
Prerequisite: Spanish 2 or teacher approval  
Length of Course: Two terms  
Credit: .5 per term

Spanish 3 continues the study of grammar and vocabulary on an advanced level and is designed for the student who wants to become fluent in written and conversational Spanish. The cultural information included emphasizes Central and South America.

### **AP Spanish (NCAA Core)**

Recommended Grade Level: 12  
Prerequisite: Spanish 3 or teacher approval  
Length of Course: Two terms  
Credit: .5 per term

AP Spanish is for the student who wishes intensive study of Spanish language skills grammar and/or wants to prepare to take the AP Spanish Language Exam. The class will be conducted almost entirely in Spanish and students will prepare for specific parts of the AP exam through speaking, reading, writing and listening exercises.

### **Japanese 1 (NCAA Core)**

Recommended Grade Level: 9-10-11-12  
Prerequisite: None  
Length of Course: Two terms  
Credit: .5 per term

Japanese 1 concentrates on learning to speak and write basic Japanese phrases and everyday language. Students learn some of the Japanese writing systems and a lot about Japanese culture.

### **Japanese 2 (NCAA Core)**

Recommended Grade Level: 10-11-12  
Prerequisite: Japanese 1  
Length of Course: Two terms  
Credit: .5 per term

Japanese 2 builds on the skills learned in Japanese 1 and improves skills in speaking, listening, reading and writing Japanese, especially reading and writing kanji. Students learn the practical application of Japanese language skills. Culture study includes history and the arts.

**Japanese 3/4 (NCAA Core)**

**(Offered as an Independent Study Only)**

Recommended Grade Level: 11-12

Prerequisite: Japanese 2 with teacher approval only

Length of Course: Two terms

Credit: .5 per term

This class is usually offered as independent study but will be offered during the regular Japanese 1 or 2 classes are there are sufficient numbers.

Students must be able to work independently and have a strong interest in improving their Japanese skills for their own use.

**German 1 (NCAA Core)**

Recommended grade level: 9-10-11-12

Prerequisite: None

Length of Course: Two Terms

Credit: .5 per term

Students taking German 1 will be introduced to the German language through the four skills of speaking, listening, reading and writing. An introduction of various cultural aspects of the German speaking people will be included.

**Advanced German (NCAA Core)**

Recommended grade level: 10-11-12

Prerequisite: German 1 or approval

Length of Course: Two Terms

Credit: .5 per term

Advanced German is a continuation of the study of skills learned in German 1. Greater emphasis will be placed upon improving vocabulary, grammatical and conversational skills. This course can be taken up to three times with teacher approval as different topics are covered each year.

## Physical Education

*(Students must have 1 credit of Physical Education to graduate)*

### **Physical Education A (Fall)**

Recommended grade level: 9 (10-11-12)

Prerequisite: None-available to students who have not completed the Physical Education for graduation.

Length of Course: One Term

Credit: .5

Golf, Soccer, Ultimate Frisbee, Roller Bladding, Speedball, Touch Football, Daily Conditioning, & Health Concepts

### **Physical Education B (Winter)**

Recommended grade level: 9 (10-11-12)

Prerequisite: None-available to students who have not completed the Phys Ed requirement for graduation.

Length of Course: One Term

Credit: .5

Volleyball, Basketball, weight Training, Badminton, Floorhockey, Daily Conditioning, Paddleball & Health Concepts

### **Health**

*The content standards for health education will be integrated into our introductory physical education classes. All students are required to earn one credit in the integrated curriculum for physical education and health.*

### **Physical Education C (Spring)**

Recommended grade level: 9 (10-11-12)

Prerequisite: None-available to students who have not completed the Physical Education for graduation.

Length of Course: One Term

Credit: .5

Tennis, Softball, Pickleball, Team Handball, Lacrosse, Daily Conditioning & Health Concepts.

### **Health**

Recommended grade level: 9(10-11-12)

Length of Course: One Term

Credit: .5

Subjects covered will include conflict resolution, nutrition, substance abuse, and reproductive health.

### **Personal Conditioning**

Recommended grade level: 10-11-12

Prerequisite: 1 credit of Physical Education

Length of Course: One Term

Credit: .5

Personal conditioning class is for those students who are interested in a more advanced and in-depth study, conditioning and training of him/herself.

This program will include 3 days in the weight room and 2 days cardiovascular workouts.

### **Fitness & Wellness**

Recommended grade level: 10-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5

This class is for those that would like to learn about lifetime fitness through various exercise methods; aerobics, pilates, exercise balls etc. Muscle toning, body balance, nutrition, weight management and women's health concepts will be emphasized. Not a sports class.

## Science

*(Required to graduate: Class of 2009 – 2 credits; Class of 2010 and beyond –3 credits)*

### **Advanced Biology A & B**

Recommended grade level: 9  
Prerequisite:  
Length of Course: One Term  
Credit: .5

9<sup>th</sup> grade college prep. Hands-on lab-based biology course covering; cells, genetics, molecular genetics, evolution, classification of all 6 kingdoms. A more in depth education than regular biology.

### **Biology A**

Recommended grade level: 9  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

Study of microbiology including biochemistry, cells, and genetics. Hands-on, lab-based course introduces biological concepts and techniques

### **Biology B**

Recommended grade level: 9  
Prerequisite: Biology A  
Length of Course: One Term  
Credit: .5

Study of macro biology including the human body, ecology, and evolution. Hands-on, lab-based course continues where Biology A leaves off.

### **Physics Concepts**

Recommended grade level: 11  
Prerequisite: Biology A/B  
Length of Course: Two Terms  
Credit: 1.0

Hands-on, lab-based investigation of the rules of nature. You will study the behavior sound, light, mirrors, lenses, velocity, acceleration, forces, vectors, momentum and energy through mathematical processes. You will use a conceptual approach to the concepts learned in physics.

### **Human Anatomy & Physiology A/B**

Recommended grade level: 11-12  
Prerequisite: Biology & Chemistry (Concurrently)  
Length of Course: Two Terms  
Credit: 1

Must have received credit in biology A & B. The study of the human body by looking at its' structure and function. A hands-on lab-based college prep course designed for those interested in the sciences. You will be expected to perform a cat dissection at the end of the second trimester.

### **Chemistry Concepts A/B**

Recommended grade level: 10  
Prerequisite: Biology A & B  
Length of Course: Two Terms  
Credit: 1.0

A survey of chemistry including atoms, periodic table, properties of matter, & bonding. Hands-on, lab-based course introduces basic concepts and lab techniques. During the 2<sup>nd</sup> term a study of chemical reactions, acid/base chemistry and thermo chemistry will occur using hands-on lab based techniques.

### **AP Biology**

Recommended grade level: 11-12  
Prerequisite: Chemistry, Algebra 2 & Biology (Recommended B+ or better)  
Length of Course: Three Terms  
Credit: 1.5

11<sup>th</sup> or 12<sup>th</sup> graders that have completed both A & B of Chemistry, Algebra 2 & Biology (recommended B+ or above) or teacher admission. Hands-on lab-based college level Biology class designed to get students ready for college expectations and possibly place out of Biology at the college level. Topics covered; cells, ecology, genetics, biochemistry, molecular genetics, biochemistry, molecular genetics, evolutionary biology, plant diversity, animal diversity, & body systems.

### **AP Chemistry**

Recommended grade level: 11-12  
Prerequisite: Chemistry & Biology (B or above or teacher recommendation, Algebra 2 or concurrently  
Length of Course: Three Terms  
Credit: 1.5

11<sup>th</sup> or 12<sup>th</sup> graders that have completed chemistry & biology (B or above) or teacher admission. Hands-on lab-based college level chemistry class designed to get students ready for college expectations and possibly place out of chemistry at the college level. Topics covered include those covered in chemistry with further emphasis of lab technique.

### **Physics A & B**

Recommended grade level: 11-12  
Prerequisite: Algebra 2  
Length of Course: Two Terms  
Credit: .5 per term

A hands-on lab-based investigation of the rules of nature. You will study the behavior of sound, light, mirrors, lenses, velocity, acceleration, forces, vectors, momentum and energy thru mathematical processes. You must be very proficient in algebra, using a scientific calculator and communicating in a written report.

### **Global Science**

Recommended grade level: 10-11  
Prerequisite: Biology A & B  
Length of Course: One Term  
Credit: .5

Applied science of the Earth's systems to society and the individual using hands-on labs, projects and research. Will study astronomy, climate and the hydrosphere.

### **Botany**

Recommended grade level: 10-12  
Prerequisite: Biology A & B  
Length of Course: One Term  
Credit: .5

Investigation of the Plant Kingdom. Hands-on indoor, outdoor, and greenhouse laboratory work which includes use of microscopes and research into the varieties and workings of plants.

### **Chemistry A & B**

Recommended grade level: 10  
Prerequisite: Algebra 1  
Length of Course: Two Terms\  
Credit: .5 per term

The study of matter and energy, the atom, periodic table, ions and bonding, and chemical reactions, stoichiometry, solutions, acids and bases, reaction rates and red-ox reactions. Hands-on lab based course introduces advance chemical concepts and techniques. Recommended

to students with a grade of "B" in biology and Algebra I.

### **Senior Topics in Science**

Recommended grade level: 12  
Prerequisite: 2.0 or above in the following: Biology A/B; Chemistry or Physics  
Length of Course: One Term  
Credit: .5

This college prep course is designed for the science student interested in pursuing real world scientific inquiry. The student will select a topic which will be investigated through active research, experimental design, and physical testing. Formal lab report and presentation will culminate with a public presentation of the research. This course is designed to develop program management, public speaking, written and oral communications, and scientific inquiry skills utilized by professionals in the field of science. Senior Topics may be repeated as dictated by research and topics selected.

### **The following science courses are presently in development for future implementation:**

Plant Biology 1  
Plant Biology 2  
Invertebrate Zoology  
Vertebrate Zoology

## Social Studies

*(Required to graduate: Class of 2009 - 2.5; Class of 2010 and beyond – 3)*

### **Freshmen Connections**

Recommended grade level: 9  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

Freshmen Connections is a class focused on easing the transition to high school for ninth grade students. The course objectives include character building, study skills, and career exploration and planning. Special programs will also be presented to meet the ever changing needs of today's students.

### **9<sup>th</sup> Grade Economics (Required)**

Recommended grade level: 9  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

Economics is a required social studies class that presents the information required in the State of Michigan content expectations. Students will study the impact of various economic systems and the effect that producers, consumers, and government can have on the systems.

### **9<sup>th</sup> Grade Civics (Required)**

(NCAA Core)  
Recommended grade level: 9  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

The main purpose of the civic course is to increase the student's knowledge of the social and political organization of the United States.

### **United States History A: Foundations to 1940 (Required)**

Recommended grade level: 10  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

The purpose of this course is to help students understand themselves as Americans through the study of United States History and the historical processes, which affect their lives. In this term, students will be able to discuss how the major trends, events, and individuals from the Founding of the nation to 1940 helped to shape modern America.

### **United States History B: 1940 to the Present (Required)**

Recommended grade level: 10  
Prerequisite: US History A  
Length of Course: One Term  
Credit: .5

Students will continue to explore and develop their understanding of themselves as Americans by looking at United States History and the Historical Process. This term of United States History will take a thematic look at history from 1940 to the Present.

### **Global Issues**

Recommended grade level: (10)-11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

This class is designed for students who want to gain a deep understanding of issues that have important implications for the world. As a result of the class students will be able to: Relate to world-wide issues from a global perspective, Debate values and priorities of the world's cultures, assert their basic understanding about principles of the world community.

## **Sociology**

Recommended grade level: (10)-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5

The basis of this class is for the students to become familiar with the basic concepts, theories, and methods of the discipline of sociology. They should also understand and be able to take a sociological perspective on personal experiences and public issues.

## **Psychology**

Recommended grade level: (10)-11-12

Prerequisite: None

Length of Course: One Term

Credit: .5

This introductory psychology course will cover the major theories of psychology. It provides the student with exposure to a variety of topics such as development from infancy to adulthood, sensation, perception, stress, motivation, emotion, the brain and its importance, personality development, abnormal psychology, and methods of therapy.

## **AP Psychology**

Recommended grade level: (10) 11-12

Prerequisite: Strongly recommended that the student take intro to Psychology

Length of Course: Three Terms

Credit: 1.5

AP Psychology is a college-level course

designed to prepare students for the AP Exam in May. Psychology is the study of behavior and mental processes, and this course is intended to introduce students to the concepts, principles, theories, and theorists of the major subfields associated with Psychology, as well as the methods and ethics used by researchers in these fields. This is a reading and writing college-level intensive course that will require students to spend time outside of class for study and homework.

## **A.P. U.S. Government and Politics A, B & C**

Recommended grade level: 11-12

Prerequisite: None

Length of Course: Three Terms

Credit: 1.5

This course is designed for the highly motivated student who wishes to be challenged while still in high school and has an interest in U.S. politics. This class is also designed to prepare students for the A.P. U.S. Government test given in May.

## **World History and Geography A Foundations to 19<sup>th</sup> Century (Required)**

Recommended grade level: 11

Prerequisite: None

Length of Course: One Term

Credit: .5

Students will explore the world's history

from the beginning to the 19<sup>th</sup> century from a regional, interregional, and global perspective.

## **World History and Geography B 19<sup>th</sup> Century to the Present (Required)**

Students will explore the world's history from the 19<sup>th</sup> century to the present from a regional, interregional, and global perspective.

## **AP World History (NCAA)**

Recommended grade level: 10-11-12

Prerequisite: None

Length of Course: Three Terms

Credits: .5 per term

AP World History is a course for college-bound students interested in building the knowledge base and analytical skills necessary for success at the post-high school level. AP World History will help students develop greater understanding of the evolution of global processes and contacts among and between different types of human societies. Special attention will be paid to preparing students for the AP World History Exam in May. Students who earn a qualifying score on the Advanced Placement Examination may have the opportunity to gain college credit for up to a full year of world history. This course will be conducted using college-level standards.

**U.S. Government (Required) NCAA**

Core

Recommended grade level: (11)-12

Prerequisite: None

Length of Course: One Term

Credit: .5

This required 12-week course has three purposes. Students: 1) learn how the government functions, at the national, state and local levels, 2) learn how the actions of government affects them, and 3) learn how they can participate in government. Students will also participate directly in government, and civil society through a variety of required activities.

# **Technology Education**

**(Students may take up to 3 terms of drafting or Metals a year)**

## **Drafting Technology**

Recommended grade level: 9-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

Drafting Technology will focus on giving students a well rounded approach to technical drawing. It will include studies in sketching, engineering, architecture and CAD.

## **Beginning Metals**

Recommended grade level: 9-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

This class will be a basic introduction to the metal working industry. There will be an emphasis on safety, measurements, blue print reading, sheet metal work, basic cutting operations (oxy/acetylene & plasma torch, hand saw), sheet metal equipment operations, metal identification (ferrous/nonferrous), resistance welding (spot welding), tool identification, tap & die calculations, an introduction to welding and machine tool (at the end of the semester).

## **Metal Technology**

Recommended grade level: 9-10-11-12  
Prerequisite: None  
Length of Course: One Term  
Credit: .5

The students will engage in the study of technology in our society, forging, and heat treatment of metals, sheet metal fabrication, wrought iron, foundry, plastics, and blue print reading.

## **Advanced Drafting**

Recommended grade level: 9-12  
Prerequisite: Drafting Technology  
Length of Course: One Term  
Credit: .5

Students will continue the start of architecture & engineering drafting topics. Students may select up to 3 terms of advanced drafting each year.

## **Advanced Metals**

Recommended grade level: 10-11-12  
Prerequisite: Metal Tech or Beginning Metals  
Length of Course: One Term  
Credit: .5

The students will learn basic welding and machine tool skills needed to produce quality products.

## **Welding-Safety**

- Different welding processes: arc welding (stick), Gas metal Arc Welding (G.M.A.W.), Tungsten Inert Gas Welding (T.I.G.), Flux Cored Arc Welding (F.C.A.W.)
- different welding positions, welding electrodes, types of welding gases
- maintenance of welding machines

## **Machine Tool-Safety**

- Knowledge of Vertical Mills & Lathes
- Speeds & Feeds
- Tooling set up: prepping High Speed Steel cutting tools
- Measurements=Micrometers
- Maintenance of Milling machines & Lathes
- Drill press & sharpening drill bits

## Special Classes

### Independent Study

Recommended grade level: 9-10-11-12

Prerequisite: Approval needed

Length of Course: One Term

Credit: .5

The Independent Study Program at Eaton Rapids High School is designed to expand the curriculum opportunities to students. It is intended for any student wishing to work at an advanced level in a specific subject area and who has exhausted ALL of the regular curriculum options. No more than one independent study may be taken in any one trimester and it cannot replace a subject that is required for graduation. A class offered in the regular schedule of offerings may NOT be taken as an independent study. Request for independent and consideration MUST be presented to the department facilitator by October 1<sup>st</sup> and February 1<sup>st</sup> each year. Applications are available in the guidance office.

### Cooperative Education

Recommended grade level: 12

Prerequisite: Application

Length of Course: One Term

Credit: .5

Co-op involves linking career/technical classroom instruction with on-the-job training. The student learner is employed in a part-time job and is paid a wage. The student is also either currently enrolled in, or has successfully completed, a technical class either at Eaton Rapids High School or at the EISD Career Preparation Center at Lansing Community College. Related Career/Technical instruction includes classes within the following programs: Business; Technology Education; and all classes at the career center. Job placement must correlate with career pathway and EDP.

## Career Preparation Courses

**CPC classes are taken at an off campus location, usually Lansing Community College. CPC courses will take the place of 2 classes at the high school each trimester. Students taking CPC courses are expected to stay in their course the entire year. Students must have transportation to school if they take an Am class and home at the end of the day if they take a PM class.**

### CPC Classes

Recommended grade level: 11-12

Prerequisite: None for first year

Second year may have a prerequisite. See counselor for more information.

Length of Course: One or two years

Credits: 1 per term



### ARTS AND COMMUNICATION PATHWAY

*Careers related to performing, visual, literary and media arts. Career path might be for you if you...Are a creative thinker, imaginative, innovative and original? Are interested in communicating ideas? Like making crafts, drawing, playing an instrument, taking photos or writing stories?*

**Commercial Art: (LCC Downtown Campus)** This course allows students to explore visual communication methods, essential design principles and their own creative processes through a variety of creative situations and visual problem solving challenges. Building upon these explorations, students learn to distinguish and visually develop various graphic elements, ultimately aiming for intelligent integration of photography, digital painting, typography and graphic design into effective unified layouts for magazines, newsletters, brochures, comic books and other two-dimensional printed mass-media materials. In addition to developing their own creative confidence and design skills, students gain a working knowledge of the industry-standard graphic applications Adobe Photoshop, Adobe Illustrator and Adobe InDesign.

Percent of time spent on lecture:40%      At computer or hands-on: 60%      Typical amount of homework per week: Rarely  
Academic Recommendations:      Reading Level – High      Math Level - Low      Writing Level – High  
Work Keys Entry Level Job Example: **Graphic Designer**      Recommendations: Reading 5      Math 5      Locating Information 4

**Computer Graphics and Web Design: (LCC Downtown Campus)** Course explores visual communication in art, photography, film, advertising, video and the World Wide Web. The goal is to develop visual awareness through an understanding of the basic elements of design and eventually how these elements can be combined to create exciting, visually appealing web designs. There is extensive hands-on training in several of the major software applications used in the field of graphic communication. Students create and modify images in Adobe Photoshop, design and build complex websites with Adobe Dreamweaver, and create and add animation and multimedia to their sites with Adobe Flash.

Percent of time spent on lecture: 20%    At computer or hands-on: 80%    Typical amount of homework per week: Rarely  
Academic Recommendations:    Reading Level – High    Math Level - Low    Writing Level – High  
Work Keys Entry Level Job Example: **Computer Specialist**    Recommendations: Reading 4    Math 5    Locating Information 4

**Fashion Technology: (LCC West Campus)** This course teaches entry level knowledge and skills of the fashion industry. Students study design, technology, manufacturing, materials and merchandising through lecture, demonstrations, and computer laboratory projects. Students are exposed to design theory with computer applications, drafting and design, and quality.

Percent of time spent on lecture: 50%    At computer or hands-on: 50%    Typical amount of homework per week: 1-2 Hr  
Academic Recommendations:    Reading Level – Low    Math Level - Low    Writing Level – Low  
Work Keys Entry Level Job Example: **Retail Salesperson**    Recommendations: Reading 4    Math 3    Locating Information 5

**Interior Design: (LCC West Campus)** This course focuses on the fundamentals of residential interior design including elements and principles, design process, color, space planning, problem solving, human factors and the evaluation of the function and aesthetics of interior spaces. Students study nonstructural interior finishes and materials.

Percent of time spent on lecture: 50%    At computer or hands-on: 50%    Typical amount of homework per week: 1-2 Hr  
Academic Recommendations:    Reading Level – Avg    Math Level – Pre Algebra    Writing Level – Avg  
Work Keys Entry Level Job Example: **Interior Designer**    Recommendations: Reading 4    Math 5    Locating Information 5



## **BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY PATHWAY**

*Careers related to business environment. Career path might be for you if you enjoy... Being a leader, organizing people, planning activities and talking? Working with numbers and ideas? Carrying through an idea and seeing the end product? Balancing a checkbook, following the stock market, holding an office, surfing the Internet?*

**Computer Support: (LCC Downtown Campus)** This course provides an introduction to computers, their role in managing business information systems, and their use in personal productivity. It includes a hands-on introduction to three major software tools: word processors, spreadsheets, and database management systems. This course provides the student with practical, hands-on experience in installing, maintaining, and trouble-shooting computer hardware and software. Topics include CPU, storage devices, installing and upgrading operating systems and software applications, memory optimization, and printer configuration. Students gain the skills necessary to diagnose and correct problems that computer users frequently encounter using computer hardware and software. Students are prepared to take the CompTIA+ certification exams.

Percent of time spent on lecture: 60%      At computer or hands-on: 40%      Typical amount of homework per week: Rarely  
Academic Recommendations:      Reading Level – High      Math Level – Algebra 1      Writing Level – Avg  
Work Keys Entry Level Example: **Computer Support Specialist**      Recommendations: Reading 5      Math 5      Locating Information 4



## **ENGINEERING/MANUFACTURING/ INDUSTRIAL TECHNOLOGY PATHWAY**

*Careers related to technologies necessary to design, develop, install, and maintain physical systems. Career path might be for you if you are... Mechanically inclined and practical? Like reading diagrams and blueprints, and drawing building structures? Curious about how things work? Interested in painting houses, repairing cars, wiring electrical circuits, or woodworking?*

**Auto Body Repair: (LCC West Campus)** This course covers basic auto body welding, metal finishing and basic auto painting. National Automotive Technicians Education Foundation (NATEF) certification prepares students for advance training or entry-level employment.

Percent of time spent on lecture: 20%      At computer or hands-on: 80%      Typical amount of homework per week: 1-2 hr  
Academic Recommendations:      Reading Level – Low      Math Level – Low      Writing Level – Low  
Work Keys Entry Level Example: **Auto Body & Related Repair**      Recommendations: Reading 3      Math 3      Locating Information 3

**Automotive Technology: (LCC West Campus)** This course covers the four National Institute for Automotive Service Excellence requirements for training in auto service and brakes (1<sup>st</sup> year) and in suspension and steering and auto service lab (2<sup>nd</sup> year). In addition, students learn basic shop procedures.

Percent of time spent on lecture: 40%      At computer or hands-on: 60%      Typical amount of homework per week: Rarely  
Academic Recommendations:      Reading Level – Avg      Math Level – Pre Algebra      Writing Level – Low  
Work Keys Entry Level Example: **Auto Master Mechanic**      Recommendations: Reading 4      Math 4      Locating Information 4

### **Aviation Mechanics (Capital City Airport)**

This FAA approved course teaches basic skills required for an Aviation Mechanic. Students will get hands on experience working with precision instruments, perform nondestructive testing, install and remove conventional rivets and fasteners, bend aircraft sheet metal, fabricate and test fluid lines, and work with finishing materials to assist in corrosion control. Topics will also include a study of aircraft avionics systems focusing on flight line testing of communications, navigation, radar, and autopilots.

Percent of time spent on lecture: 50%      At computer or hands-on: 50%      Typical amount of homework per week: 3-5 hr  
Academic Recommendations:      Reading Level – Low      Math Level – Low      Writing Level – Low  
Work Keys Entry Example: **Airframe /Powerplant Mechanic**      Recommendations: Reading 4      Math 4      Locating Information 4

**Building Technology: (LCC West Campus)** This course teaches the basic skills of construction including reading and interpreting architectural drawings, preparing the building site, introduction to and use of power tools, residential framing and foundations, interior carpentry, measuring, and applied mathematics.

Percent of time spent on lecture: 20%      At computer or hands-on: 80%      Typical amount of homework per week: Rarely  
Academic Recommendations:      Reading Level – Low      Math Level – Pre Algebra      Writing Level – Low  
Work Keys Entry Example: **Construction Worker**      Recommendations: Reading 3      Math 4      Locating Information 3

**CAD/CAM/Pre-Engineering: (LCC West Campus)** This course teaches the basic skills and concepts for design, manufacturing, and decision making related to engineering processes. Some of the skills covered are 3D parametric modeling, Finite Element Analysis (FEA), standard for geometric dimensioning and tolerancing (GD&T), a study of materials and processes for modern manufacturing, material science and testing, machine shop safety, milling, turning, and computer numerical control (CNC).

Percent of time spent on lecture: 40%      At computer or hands-on: 60%      Typical amount of homework per week: 1-2 hr  
Academic Recommendations:      Reading Level – Low      Math Level – Pre Algebra      Writing Level – Low  
Work Keys Entry Example: **Electronic Drafter**      Recommendations: Reading 5      Math 6      Locating Information 5

**Heating & Air Conditioning: (LCC West Campus)** This course introduces students to basic electricity, heating, air conditioning, and sheet metal as it pertains to residential heating, ventilation, and air conditioning equipment installation and service.

Percent of time spent on lecture: 47%    At computer or hands-on: 53%    Typical amount of homework per week: 1-2 hr  
Academic Recommendations:    Reading Level – Low    Math Level – Pre Algebra    Writing Level – Low  
Work Keys Entry Example: **HVAC Mechanic**    Recommendations: Reading 4    Math 5    Locating Information 5

**Heavy Equipment Operation & Maintenance: (AIS Construction Equipment Company)** Over the two-year program includes electronics, hydraulics, engine performance, and fundamentals of mechanics related to heavy equipment and diesel equipment. Students are also provided limited training on the safe operation and maintenance of heavy equipment such as bulldozers, excavators, backhoes and front end loaders. Successful students have an opportunity to earn a sponsorship to Ferris State University, apply for acceptance into the AIS Apprenticeship Training Program, or find employment with other heavy equipment or diesel maintenance companies.

Percent of time spent on lecture: 50%    At computer or hands-on: 50%    Typical amount of homework per week: 1-2 hr  
Academic Recommendations:    Reading Level – Avg    Math Level – Avg    Writing Level – Avg  
Work Keys Entry Example: **Mechanic**    Recommendations: Reading 4    Math 4    Locating Information – 4

**Residential Wiring & Electrical Technology: (LCC West Campus)** This course provides an overview of the field of electrical wiring. Students learn electrical safety practices in home, construction, and industry. Students learn to use meters, basic wiring installation, and electrical codes and standards.

Percent of time spent on lecture: 75%    At computer or hands-on: 25%    Typical amount of homework per week: 1-2 hr  
Academic Recommendations:    Reading Level – Low    Math Level – Low    Writing Level – Low  
Work Keys Entry Example: **Electrician**    Recommendations: Reading 5    Math 5    Locating Information 5

**Welding Technology: (LCC West Campus)** This course teaches the basic skills of oxy-fuel welding and cutting, shielded metal arc welding, gas tungsten arc welding and gas metal arc welding through lectures and hands-on experience. Common sense is an important quality for welders.

Percent of time spent on lecture: 20%    At computer or hands-on: 80%    Typical amount of homework per week: Rarely  
Academic Recommendations:    Reading Level – Avg    Math Level – Avg    Writing Level – Avg  
Work Keys Entry Example: **Welder & Cutter**    Recommendations: Reading 4    Math 3    Locating Information 4



## HEALTH SCIENCES PATHWAY

*Careers in this path are related to the promotion of health and treatment of disease. These include research, prevention, treatment and related health technologies. Career path might be for you if you are...Interested in diseases and how the body works? Enjoy reading about science and medicine? Like caring for people who are sick or to help them stay well?*

**Emergency Medical Services/Fire Science: (LCC West Campus)** The EMS portion provides students with knowledge and skills necessary to manage ill or injured victims at the scene of an emergency until professional medical help is obtained. Fire Science introduces students to fire fighting with an overview of fire chemistry, fire fighting equipment, safety, organization, apparatus, special rescue techniques, customer service, fire prevention, public education and the future of fire service.

Percent of time spent on lecture: 50%      At computer or hands-on: 50%      Typical amount of homework per week: 1-2 hr  
Academic Recommendations:      Reading Level – High      Math Level – Low      Writing Level – High  
Work Keys Entry Example: **Fire Prevention Engineer**      Recommendations: Reading 6      Math 3      Locating Information 5

**Emergency Medical Technician: (LCC Downtown Campus – Own transportation required) 2<sup>nd</sup> Year Qualified Students from Emergency Medical Services or Health Technology.** This course will prepare the student as a basic EMT. Emphasis is placed on didactic material including airway management, patient assessment, CPR soft tissue injuries, head, chest, and abdominal injuries, and proper use of equipment in the delivery of basic emergency care.

Percent of time spent on lecture: 50%      At computer or hands-on: 50%      Typical amount of homework per week: 3-5 hr  
Academic Recommendations:      Reading Level – High      Math Level – Low      Writing Level – High  
Work Keys Entry Example: **EMT/Paramedic**      Recommendations: Reading 5      Math 4      Locating Information 5

**Health Technology: (LCC Downtown Campus)** This course teaches the basic skills intended to prepare students for entry level employment in a variety of health-related occupations. The course provides an overview of current health systems, potential careers, and basic skills required for a job in skilled patient care. Students learn technical skills, critical thinking, interpersonal skills, study habits, note taking, and how to perform basic patient care skills. Individuals who take this class have a solid foundation of core nursing assistant skills. Off-site clinicals are included.

Percent of time spent on lecture: 75%      At computer or hands-on: 25%      Typical amount of homework per week: 3-5 hr  
Academic Recommendations:      Reading Level – High      Math Level – Low      Writing Level – Avg  
Work Keys Entry Example: **Nurse Aide/Orderly**      Recommendations: Reading 4      Math 3      Locating Information 4



## HUMAN SERVICES PATHWAY

*Careers in this path are related to economic, political, and social systems. These include education, government, law and law enforcement, leisure and recreation, military, religion, child care, social services and personal services. Career path may be for you if you... Are friendly, open, understanding and cooperative? Like to work with people and to solve problems? Find it important to do something that makes things better for other people? Like to help friends?*

**Criminal Justice: (LCC West Campus)** This course explores the basic concepts and potential career opportunities in Criminal Justice. The course provides instruction in the areas of law enforcement, the courts, and corrections.

Percent of time spent on lecture: 75%      At computer or hands-on: 25%      Typical amount of homework per week: 3-5 hr  
Academic Recommendations:      Reading Level – High      Math Level – Low      Writing Level – Avg  
Work Keys Entry Example: **Police Patrol Officer**      Recommendations: Reading 4      Math 4      Locating Information 4

**Criminal Justice – Law Enforcement. 2<sup>nd</sup> Year Program: (LCC West Campus) Own transportation required) 2<sup>nd</sup> Year Qualified Students from Criminal Justice.** Being designed for students who successfully complete the first year of Criminal Justice and meet other enrollment requirements. Interested students should meet with their current instructor.

**Early Childhood Education: (LCC Downtown Campus)** This course focuses on the knowledge and skill necessary to prepare the student for an entry-level position in a early childhood education program. Topics will include child development, health and safety issues, self-esteem, positive guidance and discipline skills, professionalism, as well as design of developmentally appropriate activities. A placement experience at a child care center with young children is an integral part of the program.

Percent of time spent on lecture: 60%      At computer or hands-on: 40%      Typical amount of homework per week: 3-5 hr  
Academic Recommendations:      Reading Level – Avg      Math Level – Low      Writing Level – Avg  
Work Keys Entry Example: **Child Care Worker**      Recommendations: Reading 4      Math 3      Locating Information 4

**Fire Science and Emergency Medical Services: (LCC West Campus)** This course includes both EMS training and fire science. Description is under Health Sciences Pathway.

**Culinary Arts and Food Service: (LCC Downtown Campus)** This course introduces students to culinary arts, careers in the hospitality and food service industry, event planning and promotion, bakery production and food service sanitation. Students will have the opportunity to earn a national recognized “ServSafe” certification. Through interactive and integrated activities students will learn job search preparation skills and explore education requirements and skills for further advancement in the hospitality/foods industry.

Percent of time spent on lecture: 40%      At computer or hands-on: 60%      Typical amount of homework per week: Rarely  
Academic Recommendations:      Reading Level – Avg      Math Level – Avg      Writing Level – Avg  
Work Keys Entry Example: **Restaurant Cook**      Recommendations: Reading 3      Math 4      Locating Information 4



## **NATURAL RESOURCES AND AGRISCIENCE PATHWAY**

*Careers in this path are related to agriculture, the environment and natural resources. These include agricultural sciences, earth sciences, environmental sciences, fisheries, forestry, horticulture, and wildlife. Career path may be for you if you... Are a nature lover? Are practical, curious about the physical world and interested in plants and animals? Enjoy hunting or fishing? Like to garden or mow the lawn? Are interested in protecting the environment?*

**Animal Science (Potter Park Zoo – own transportation required)** This course is designed for students who have career interests in zoology, animal science, veterinary medicine and/or conservation. This is an in-depth, hands on learning experience in a real world setting—Potter Park Zoo. In addition to classroom work, students will be expected to actively participate in zoo activities and work directly with zoo staff.

Percent of time spent on lecture: 50%      At computer or hands-on: 50%      Typical amount of homework per week: 3-5 hr  
Academic Recommendations:      Reading Level – High      Math Level – Avg      Writing Level – High  
Work Keys Entry Example: **Vet Technologist**      Recommendations: Reading 4      Math 3      Locating Information 3

**Landscape Design & Horticulture: (LCC West Campus)** This course teaches basic landscape design principles, installation and maintenance practices. In conjunction with the landscaping, students will learn the basic principles of horticulture; including plant identification, how plants grow, propagation methods, and greenhouse growing techniques.

Percent of time spent on lecture: 50%      At computer or hands-on: 50%      Typical amount of homework per week: 1-2 hr  
Academic Recommendations:      Reading Level – High      Math Level – Low      Writing Level – High  
Work Keys Example: **Landscape/Grounds Keeper**      Recommendations: Reading 4      Math 3      Locating Information 4

## CAPITAL AREA CAREER CENTER IN MASON

*The following programs are offered in partnership with the Capital Area Career Center in Mason with a separate enrollment process. Eaton Rapids students may be placed in one of these classes only if seats are available.*

***Students who choose a class from this selection must also pick a class from the above EISD class as a 2<sup>nd</sup> choice they will take if seats are not available at the Capital Area Career Center.***

**Students must provide their own transportation to and from classes taken at the Capital Area Career Center in Mason.**

**Banking and Finance (Located at Capital Area Career Center in Mason (own transportation required).** In this course, you will study the fundamentals of banking, finance and teller operations. You will also learn spreadsheet applications related to finance and learn fundamental accounting skills. During class, students participate in an internship at the on-site branch of CASE Credit Union to perform all duties of a teller.

Percent of time spent on lecture: 50%      At computer or hands-on: 50%      Typical amount of homework per week: 1-2 hr  
Academic Recommendations:      Reading Level – Avg      Math Level – Avg      Writing Level – Avg  
Work Keys Entry Level Example: **Teller**      Recommendations: Reading 4      Math 3      Locating Information 4

**Business and Administrative Services (Located at Capital Area Career Center in Mason (own transportation required).** Through individual, team, and hands-on activities, you will learn important business skills. You will work daily at your computer learning word processing, spreadsheet, database, and presentation software. You may be able to earn Microsoft Office certification in one or more of these software applications. You will apply math skills to business operations and introductory accounting, and use oral and written communication to produce letters, memos, reports and emails.

Percent of time spent on lecture: 50%      At computer or hands-on: 50%      Typical amount of homework per week: 1-2 hr  
Academic Recommendations:      Reading Level – Avg      Math Level – Avg      Writing Level – Avg  
Work Keys Entry Level Example: **Office Clerk**      Recommendations: Reading 4      Math 4      Locating Information 4

**Capital Area Career Center Healthcare Education Partnership (CAHEP): (Sparrow Hospital own transportation required.)**

This program will provide high school students with direction and exposure to health careers, refocusing on developing academic, technical, and employability skills, as well as to prepare students to transition into post-secondary training and/or health care employment. Separate application process.

Percent of time spent on lecture: 75%      At computer or hands-on: 25%      Typical amount of homework per week: 3-5 hr  
Academic Recommendations:      Reading Level – High      Math Level – Low      Writing Level – Avg  
Work Keys Entry Example: **Nurse Aide/Orderly**      Recommendations: Reading 4      Math 3      Locating Information 4

**Custodial Services: (Located at Capital Area Career Center in Mason (own transportation required))**

In a unique partnership, Custodial Services at the CACC and Holden Hall at Michigan State University offers students the opportunity to learn about the practice of cleaning in a workplace setting. **This program may be taken 1 or 2 years** and students can enter the program at the beginning of each semester. Most 2<sup>nd</sup> year students will spend their time on paid or unpaid work-based learning.

Percent of time spent on lecture: 90%    At computer or hands-on: 10%    Typical amount of homework per week: Rarely  
Work Keys Entry Level Job Example: **Janitor**    Recommendations: Reading 4    Math 3    Locating Information 4

**Lansing Area Manufacturing Partnership (LAMP): General Motors facility in downtown Lansing. (Own transportation)**

In one of the most modern manufacturing facilities in the world, you will develop skills and knowledge in modern manufacturing processes, systems and state-of-the-art technology. This will include working with mentors, project advisors and subject matter experts. LAMP is considered an excellent preparation program for those students who have an interest in the business, entrepreneurship and engineering fields. Separate application process.

Percent of time spent on lecture: 50%    At computer or hands-on: 50%    Typical amount of homework per week: 1-2 hr  
Academic Recommendations:    Reading Level – Avg    Math Level – Avg    Writing Level – Avg  
Work Keys Entry Example: **Engineering Tech.**    Recommendations: Reading 4    Math 4    Locating Information 4

**Marketing and Management: (Located at Capital Area Career Center in Mason (own transportation required))**

This course includes many different activities related to selling and advertising, serving customers, merchandising, purchasing and pricing, retailing and wholesaling, managing and running a business, as well as starting a business. Students operate the school store on a daily basis.

Percent of time spent on lecture: 50%    At computer or hands-on: 50%    Typical amount of homework per week: Rarely  
Academic Recommendations:    Reading Level – Avg.    Math Level – Avg.    Writing Level – Avg  
Work Keys Entry Level Example: **Retail Sales Person**    Recommendations: Reading 4    Math 3    Locating Information 5

**Precision Machining Technology: (Located at Capital Area Career Center in Mason (own transportation required))**

This program prepares students for machine tool apprenticeships such as: machinists, tool makers, die makers, mold makers and machine repair. Students have the opportunity to be selected for participation in an apprenticeship program between their junior and senior year. Students are prepared for national machine tool certification offered by the National Institute of Metalworking standards.

Percent of time spent on lecture: 40%    At computer or hands-on: 60%    Typical amount of homework per week: Rarely  
Academic Recommendations:    Reading Level – Low    Math Level – Avg    Writing Level – Low  
Work Keys Entry Level Job Example: **Machinist**    Recommendations: Reading 4    Math 4    Locating Information 4