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Career Pathways

Curriculum Guide

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Dear Climax-Scotts High School Students and Parents:

The Curriculum Guide is designed to serve your son and/or daughter in planning his or her educational program at Climax-Scotts Jr./Sr. High School. The Curriculum Guide provides a summary of courses arranged by departments. (Please note that not all course listings are offered every year.)

A student's education is the key to his/her future. Each student will be introduced to our Educational Development Plan (EDP) process at the end of their 7th grade year. We encourage the active participation of parents to formulize the student's EDP by the end of their 8th grade year.

We look forward to assisting you in the planning of your child's academic career. Please do not hesitate to call if you have any questions or concerns. You may contact the Climax-Scotts Jr./Sr. High School by calling 746-2300 or one of the direct lines listed below.

Kim Kirshman, Principal 746-2301	Judi Mentzer, Guidance Counselor 746-2311

Introduction

The American workplace is in transition. The gap between high-paying, high-skills jobs and low-paying, low-skill jobs is continually widening. The level of education and skills a worker brings to the job market often determines the difference between a future of opportunities and a future of uncertainty.

New technology is creating a demand for workers who have increased math, communication and science skills, along with advanced technical and occupational skills. Tomorrow's workers will also need to have critical thinking, problem solving, and teamwork skills. It is no longer acceptable to just "get through" high school. Only by planning carefully, and choosing wisely, will students exit high school prepared for post-secondary education and the future workplace.

This book is arranged using a career pathways approach. All careers can fit into the six clusters that are identified here. When planning a high school career, it is important to think in terms of future careers. Although a student may not know exactly what job they want to eventually do, they can narrow their choice to a cluster area. Within each cluster there are two options. One is the four-year college option, which will lead a student through a planned sequence of courses culminating in a baccalaureate degree within a career cluster area. The other option is the tech prep option, which will lead a student through a planned sequence of courses culminating in post-secondary training at the two-year college level, technology school, a specialized training program or the job market. These educational development plans are given as a guide to be used in planning the best individual program for your student, one that takes into account his/her future goals, job market requirements and eventually your student's career plans.

Climax-Scotts Career Pathways Areas

- Arts & Communications
- Business, Management, Marketing & Technology
- Engineering / Manufacturing & Industrial Technology
- Health Sciences
- Human Services
- Natural Resources & Agri-Science

4-Year College Preparatory Program

A college preparatory program is offered for students planning now to attend a college or university after high school, and for others who can gain from strong academic preparation. There is an increasing demand for the high school graduate to support vocational plans with a

strong academic background, especially in the technological fields. Traditional college preparation classes center around five academic subject areas: English, mathematics, science, foreign languages, and social studies. Students will also find a background in computer applications essential.

Student athletes who intend to compete at an NCAA Division I institution during their freshman year must complete a core curriculum of at least sixteen (16) academic courses. Many of these courses are specified by department and content. In addition, a minimum score on the SAT and ACT must be attained. For specific details, the student athlete should see the high school counselor.

Tech Prep Preparatory Program

Tech prep programs are academically challenging and prepare students to work in a highly technical society. Offered as an alternative to the college program, tech prep provides focused career preparation for high school students.

Tech prep offers a comprehensive program for students that blend both academic and technical study. Students are able to make a smooth transition through high school and a twoyear college, or technical program in a direct and coordinated path of instruction. Graduates from a tech prep program also have the necessary skills and knowledge to move into entrylevel positions in the job market and will have the academic and technological foundation for advancement.

National Collegiate Athletic Association (NCAA) Preparation

The NCAA suggests applying for certification before graduation if you wish to participate in athletics as a freshman at the college to which you will be admitted. The Clearinghouse will issue a preliminary certification report when you have all materials submitted. After graduation, the Clearinghouse will review you final transcript to make a final certification decision according to NCAA standards. For NCAA Certification, you must earn a grade point average of at least 2.0 (on a 4.00 scale) in a core curriculum of at least 16 academic courses that were successfully completed during grades 9-12. No special values are allowed for “+” or “-“grades. The chart below shows what core courses must be included at a minimum.

Division I
2008 and after

If you enroll in a Division I college between 2008 and after and want to participate in athletics or receive an athletics scholarship during your first year, you must:

- Graduate from high school;

- Complete these 16 core courses:

    - 4 years of English
    - 3 years of math (algebra 1 or higher)
    - 2 years of natural or physical science (including one year of lab science if offered by your high school)
    - 1 extra year of English, math or natural or physical science
    - 2 years of social science
    - 4 years of extra core courses (from any category above, or foreign language, non-doctrinal religion or philosophy)

Division II
2005 and after

If you enroll in a Division II college in 2005 or later and want to participate in athletics or receive and athletics scholarship during your first year, you must:

- Graduate from high school;

- Complete these 14 core courses:

    - 3 years of English
    - 2 years of math (algebra 1 or higher)
    - 2 years of natural or physical science (including one year of lab science if offered by your high school)
    - 2 extra years of English, math or natural or physical science
    - 2 years of social science
    - 3 years of extra core courses (from any category above, or foreign language, non-doctrinal religion or philosophy)

***This document is from the NCAA Clearinghouse.**

Climax-Scotts Graduation Requirements

A minimum of twenty-four (24) credits is required for graduation. Twenty (20) credits must include the following required classes:

ENGLISH…….....4.0 credits
English 9, 10, 11, and 12

MATHEMATICS…… .....4.0 credits
Algebra I, Geometry, Algebra II, and one additional math credit
(**All students must take a math course in 12th grade.)**

SCIENCE…… .....3.0 credits
Biology and either Chemistry or Physics, and one additional science credit.

SOCIAL STUDIES .....4.0 credits
Civics (.5), World Cultures (1.0),
U.S. History (1.5), Government (.5), Economics (.5)

PHYSICAL EDUCATION .....0.5 credits

HEALTH .....0.5 credits

COMPUTERS OR BUSINESS MANAGEMENT ADMINISTRATION .....1.0 credit
Students will be awarded the online learning credit, as required by the State of Michigan, by completing an online course/tutorial or a structured learning opportunity within our curriculum framework.

FINE ARTS/APPLIED ARTS .....1.0 credit
One credit must be a Fine Art or an Applied Art course

FOREIGN LANGUAGE…….1.0 credit
Fine Arts/Applied Arts or Foreign Language

FINE ARTS/APPLIED ARTS OR FOREIGN LANGUAGE……..1.0 credit

*Each student must carry a full schedule of classes (7 class period assignments) each semester.

Drop and Add Procedures

Students wishing to alter their schedule may request to do so a week before the new semester starts and the first week of a new semester. The only schedule changes that may be made after the first week of a semester is by teacher request with approval by the principal. The teacher whose class is being added needs to approve the change before the teacher whose class is being dropped. Proper sequence of signatures must be followed in order for the change to be approved.

Career Pathways

Arts & Communications

Business, Management, Marketing & Technology

Engineering / Manufacturing & Industrial Technology

Health Sciences

Human Services

Natural Resources & Agri-Science

Arts, Communications & Media

Four-Year College Degree Sample Careers

Communications Executive
Art Director
Commercial Artist
Radio/TV Manager
Editorial Writer
Production Manager
Illustrator
Journalist
System Analysis
Radio & TV Announcer
Reporter
Media Consultant

Two-Year College Degree Sample Careers

Commercial Artist
Illustrator
Industrial Designer
Photographer
Photo Process Worker
Printing Press Operator
Technical Writer
Computer Compositor

Climax-Scotts Educational Development Plan (EDP)

Educational Level: 4-Year College

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English 10
1020 Geometry / 1030 Algebra II
1120 Biology I
1302 World History
1603 BMA. Computers
1700 Art I

Eleventh Grade:
1225 English 11
1020 Geometry / 1030 Algebra II
Chemistry/1121 Biology II
1340 Government/ 1350 Economics
1720 Art II
Elective/ EFE/EFA Elective

Twelfth Grade:
1230 English 12 / 1240 AP English
Math Analysis / 1041 Trigonometry
1730 Art III
1132 Physics
Elective

Educational Level: Tech Prep Degree

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English I0
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
1700 Art I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II 1131
1130 Environmental Science
1340 Government/ 1350 Economics
1720 Art II
Elective/ EFE/EFA Elective

Twelfth Grade:
1230 English 12 1040
Math Elective
1730 Art III
20 Co-op
Elective

Business, Management, Marketing & Technology

Business Administration
Four-Year College Degree
Sample Careers

Accountant
Hospital Administrator
Bank Manager
Economist
Business Executive
Personnel Manager
Statistician
Systems Analyst
Finance Manager
Actuary
Administrative Assistant
Auditor
Business Ed. Teacher
Business Owner
Lawyer
Computer Programmer

Business & Office
Two-Year College Degree
Sample Careers

Accounting Clerk
Administrative Assistant
Bank Teller
Bookkeeper
Budget Analyst
Secretary
Tax Preparer
Restaurant Manager
Dispatcher
Executive Secretary
Insurance Adjuster
Payroll Clerk
Legal Aid Assistant
Computer Operator
Travel Agent

Climax-Scotts Educational Development Plan
(EDP)

Educational Level: 4-Year College

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English 10
1020 Geometry / 1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
1400 Spanish I

Eleventh Grade:
1225 English 11
1020 Geometry / 1030 Algebra II
1131 Chemistry / 1121 Biology II
1340 Government / 1350 Economics
1420 Spanish II
Elective / EFE Elective

Twelfth Grade:
1230 English 12 / 1240 AP English
1040 Math Analysis / 1041 Trigonometry
1700 Art I / 2001 Woods I
1132 Physics
Elective

Educational Level: Tech Prep Degree

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English I0
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
1700 Art I / 2001 Woods I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II
1130 Environmental Science
1340 Government / 1350 Economics
1720 Art II / 2020 Woods II
1604 Advanced BMA

Twelfth Grade:
1230 English 12
1700 Art I / 2001 Woods I
1620 BMA Accounting
20 Co-op/Electives

Engineering / Manufacturing and Industrial Technology

Four-Year College Degree Sample Careers

Engineer	Industrial Engineer
Industrial Designer	Mechanical Engineer
Plant Manager	Production Manager
Biochemist	Mathematician
Air Traffic Controller	Architect
Flight Instructor	Landscape Architect

Two-Year College Degree Sample Careers

TV Technician	Drafter
Industrial Machine Repairer	Pipe Fitter
Lathe Operator	Machinist
Plastics Production Worker	Tool & Die Maker
CAD Repairer	Welder
Sheet Metal Worker	Auto Collision Repair

Climax-Scotts Educational Development Plan (EDP)

Educational Level: 4-Year College

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English 10
1020 Geometry / 1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
2000 Mechanical Drawing/2001 Woods I

Eleventh Grade:
1225 English 11
1020 Geometry / 1030 Algebra II
1131 Chemistry / 1121 Biology II
1340 Government / 1350 Economics
2023 CAD/CAM / 2020 Woods II
Elective / EFE Elective

Twelfth Grade:
1230 English 12 / 1240 AP English
1040 Math Analysis / 1041 Trigonometry
1132 Physics
Elective

Educational Level: Tech Prep Degree

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English I0
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
2000 Mechanical Drawing/2001 Woods I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II
1130 Environmental Science
1340 Government / 1350 Economics
2023 CAD/CAM / 2020 Woods II
1604 Advanced BMA

Twelfth Grade:
1230 English 12
Math Elective
2025 Woods III
20 Co-Op / Elective

Health Sciences

Four-Year College Degree Sample Careers

Chiropractor
Dietitian
Health Administrator
Nurse Anesthetist
Respiratory Therapist
Psychiatrist
Pathologist
Nursing Instructor
Pharmacist
Physical Therapist
Registered Nurse
Veterinarian
Surgeon
Art/Music Therapist

Two-Year College Degree Sample Careers

Cardiovascular Tech.
Dental Assistant
Dental Laboratory Tech.
Emergency Medical Tech.
Medical Assistant
Medical Laboratory Tech.
Veterinary Technician
Nuclear Medical Tech.
Optical Lab Tech.
Optician
Radiological Tech.
Technician
Licensed Practical Nurse

Climax-Scotts Educational Development Plan (EDP)

Educational Level: 4-Year College

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English 10
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
1400 Spanish I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II
1131 Chemistry/1121 Biology II
1340 Government/1350 Economics
1420 Spanish II
EFE Allied Health

Twelfth Grade:
1230 English 12/1240 AP English
1040 Math Analysis / 1041 Trigonometry
1700 Art I/2001 Woods I
EFE Allied Health II/Pharmacy Tech

Educational Level: Tech Prep Degree

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 US History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English I0
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
1700 Art I/2001 Woods I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II
1130 Environmental Science
1340 Government/1350 Economics
1720 Art II/2020 Woods II
EFE Health Occupations

Twelfth Grade:
1230 English 12
Math Elective
EFE Health Occ II/Dental Assisting, EMT

Human Services

Four-Year College Degree Sample Careers

City Manager
Clergy
College Administrator
College Instructor
Counselor
Court Administrator
Detective/Investigator
F.B.I. Agent
Parole/Probation Off.
Interpreter/Translator Clergy
Judge
Lawyer
Librarian
Political Scientist
Politician
Psychologist
Social Worker
Teacher

Two-Year College Degree Sample Careers

Library Assistant
Corrections Officer
Dietetic Assistant
Fire Fighter
Home & Bldg. Inspector
Postmaster/Mail Supervisor
Travel Agent
Child Care Director
Police Officer, Detective
Psychiatric Aide
Recreation Worker
Real Estate Agent
Social Director

Climax-Scotts Educational Development Plan (EDP)

Educational Level: 4-Year College

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 U.S. History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English 10
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
1400 Spanish I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II
1131 Chemistry/1121 Biology II
1340 Government / 1350 Economics
1420 Spanish II
Elective

Twelfth Grade:
1230 English 12 /1240 AP English
1131 Chemistry / 1132 Physics
1420 Spanish II / Other Foreign Language
1040 Math Analysis/ 1041 Trigonometry
1323 Psychology
Elective

Educational Level: Tech Prep Degree

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 U.S. History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English I0
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
1700 Art I/2001 Woods I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II
1130 Environmental Science
1340 Government/1350 Economics
1720 Art II/2020 Woods II
Elective

Twelfth Grade:
1230 English 12
Math Elective
1323 Psychology
Elective

Natural Resources and Agri-Science

Four-Year College Degree Sample Careers

Agricultural Scientist
Soil Conservationist
Cooperative Extension - Service Worker
Park Manager
Agronomist
Mining Engineer
Forester
Oceanographer
Conservationist
Botanist

Two-Year College Degree Sample Careers

Livestock Farmer
Forestry Technician
Horticulturist (Ornamental)
Floriculturist
Horse Trainer
Landscape & Nursery Manager
Fish & Game Warden
Farm Manager
Park Ranger
Veterinary Technician

Climax-Scotts Educational Development Plan (EDP)

Educational Level: 4-Year College

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 U.S. History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English 10
1020 Geometry / 1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers
Spanish I

Eleventh Grade:
1225 English 11
1020 Geometry / 1030 Algebra II
Chemistry/1121 Biology II
1340 Government/1350 Economics
1420 Spanish II
Elective

Twelfth Grade:
1230 English 12/1240 AP English
Math Analysis / 1041 Trigonometry
1700 Art I/2001 Woods I
Elective

Educational Level: Tech Prep Degree

Ninth Grade:
1200 English 9
1014 Algebra I
1100 Intro to Physics
1320 U.S. History
1500 Health / 1501 Physical Education
5001 Focus on Freshmen/1600 Computers

Tenth Grade:
1220 English I0
1020 Geometry/1030 Algebra II
1120 Biology I
1302 World History
1603 BMA Computers 1400
1700 Art I/2001 Woods I

Eleventh Grade:
1225 English 11
1020 Geometry/1030 Algebra II 1131
1130 Environmental Science
1340 Government/1350 Economics
1720 Art II/2020 Woods II
Elective

Twelfth Grade:
1230 English 12 1040
Math Elective
Elective

Curriculum Guide

Art Department

The Art Department serves those students who are interested in learning by doing. Courses are based upon artistic production rather than a textbook approach. Demonstrations and lectures are integrated with the studio production to guide the student to an understanding of the subject. Craftsmanship, creativity and willingness to work are the main criteria for evaluation of student work. Some outside work initiated by the student is encouraged to foster increased skill.

Course	**Recommended Grade Level**
1700 Art I	9-12
1720 Art II	10-12
1730 Art III	11-12

1700 Art I **Grades: 9-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To introduce the student to all of the basic areas of art such as drawing, design, painting, sculpture, and textiles. Art history will be incorporated with these areas of study. Students may choose to buy some of their own supplies if they are not satisfied with the supplies furnished by the school. **Topics studied:**

1. Design, Composition, and Color
2. Tempera Painting
3. Perspective Drawing
4. Value Study
5. Printmaking
6. Watercolor Painting
7. Drawing in Pencil/Pastel
8. Papier Mâché or Ceramics
9. Art History
10. Calligraphy
11. Scratchboard
12. Pen & Ink Drawing

1720 Art II **Grades: 10-12** **Credit: 1 (2 semesters)**

Prerequisite: Art I

Purpose: To allow the advanced art student to continue in a more in depth study of the main areas in art. Art history will be incorporated with these areas of study. Students may choose to buy some of their own supplies if they are not satisfied with supplies furnished by the school. **Topics studied:**

1. Design, Composition, and Color
2. Figure Drawing
3. Nature Drawing
4. Portrait Drawing
5. Collage/Assemblage
6. Art History
7. Ceramics
8. Printmaking
9. Acrylic
10. Sculpture
11. Calligraphy
12. Water Color

1730 Art III **Grade: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: Art II

Purpose: To allow the career-oriented art student to focus on developing skills learned in Art I and Art II. A portfolio of work will be created. Art History will be incorporated with the subject studied.

Topics studied:

1. Design, Composition, and Color
2. Graphics
3. Styles of Drawing
4. Figure Drawing and Portraiture
5. Calligraphy
6. Collage
7. Printmaking
8. Jewelry
9. Matting Presentation
10. Sculpture
11. Ceramics
12. Crafts*
13. Photography
14. Watercolor/Acrylic Painting
15. Art History

* If craft is stained glass - students pay for glass

Business Education Department

The goals of the Business Education Department are twofold: first, to ensure that every student has basic skills to prepare for a technological world, and second, to provide training in marketable skills for business employment, giving students an understanding of business procedures that can be used in the transition from student to worker and consumer.

Course	Recommended Grade Level
1603 Business Management & Administration (BMA) Computers	10-12
1604 BMA Advanced	11-12
1605 Virtual Enterprise	11-12
1620 BMA Accounting	10-12
1630 Marketing	10-12

1603 - BMA Computers **Grades: 10-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To provide students with the opportunity to gain the basic skills necessary for employment in an office or business related environment. Students will learn techniques and receive training on equipment/software used in many businesses today, with special emphasis on Microsoft Office 2010. Students have the opportunity to earn articulated credit at KVCC and Davenport University, as long as they receive a "B" or higher in this class. Applications for articulated credit are completed in May of each academic year. **Topics studied:**

1. Microsoft Office Specialist Certification 2013
2. Entrepreneurs/Business Plan
3. "Employability Essentials for Success"
4. Proper interviewing techniques
5. Career Pathways – Career Searches
6. Portfolio completion/job shadow

1604 – BMA II and III **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: BMA Computers

Purpose: To provide students with the opportunity to enhance the skills necessary for employment in an office or business related environment learned in BMA Computers. Students will learn techniques and receive training on equipment/software used in many businesses today, with special emphasis on advanced skills in Microsoft Office 2007. Students have the opportunity to earn articulated credit at KVCC, Davenport University, Baker College, Grand Rapids Community College, and Lake Michigan College, as long as they receive a "B" or higher in this class. Applications for articulated credit are completed in May of each academic year. This class is responsible for creating and publishing the "Panther Paws" Newsletters. **Topics studied:**

1. Microsoft Office Expert Certification 2013
2. Desktop Publishing
3. "Employability Essentials for Success"
4. Copy machine orientation/aide school staff
5. Proper interviewing techniques
6. Career Pathways – Career Searches
7. Short folio/job shadow

1605 – Virtual Enterprise **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: *This should be a 3rd year program so students have background information.*

Purpose: Virtual Enterprises International™ is year-long class in a simulated business environment that is set up and run by students with the guidance of their teacher/facilitator and a business partner. Students (employees) working in the Virtual Enterprise experience all facets of being an employee in a firm. They engage in actual business tasks, activities and transactions including trading with other simulated firms around the world. This experience enables students to develop business, technical, interpersonal, problem-solving, and teamwork skills. As employees of VEI, students can undertake market research, develop a business plan and annual report, advertise, buy and sell goods and/or services, pay wages and taxes, and maintain a 401Kplan. Travel opportunities are available for interested students.

1607 – Computer Science Principles **Grades: 10-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To provide and develop students with the knowledge of computer science programming, as well as the principles that guide this study. *Code.org's Computer Science Principles* (CSP) curriculum is a full-year, rigorous, entry-level course that introduces students to the foundations of modern computing.

Topics studied:

1. Programming
2. Algorithms
3. The Internet
4. Big Data
5. Digital privacy and security
6. The societal impacts of computing

1620 - BMA Accounting **Grades: 10-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To teach students how to organize personal and business financial information. The course will provide students with basic knowledge to manage their own financial records as well as possibly move into advanced accounting classes at the college level. Also, this course will provide students with the opportunity to gain the basic skills necessary for employment in an office or business related

environment. Students have the opportunity to earn articulated credit at KVCC, Baker College, Davenport University, Ferris State University, Grand Rapids Community College, and Lake Michigan College, as long as they receive a "B" or higher in this class. Applications for articulated credit are completed in May of each academic year.

Topics studied:

1. Recording and reporting of business transaction in journals, ledgers, and financial documents
2. Accounting for a sole proprietorship, corporation, and a partnership
3. Automated accounting systems
4. Employability Essentials for Success
5. Proper Interviewing Techniques
6. Portfolio Completion

1630 Marketing **Grades: 10-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To develop the student's skills by exploring consumer behavior, purchasing necessities, services, and examining their roles in the marketplace. The students will create various marketing projects. This class is responsible for the school store.

Topics studied:

1. Role of the consumer in our economy
2. Being an informed consumer
3. The 4 P's
4. Profit/loss
5. Buying essentials
6. Buying services, i.e., insurance, banking

English Department

The English Department offers instruction in the areas of speech and general English. The focus of the speech unit ranges from development of everyday communication skills to experience in the dramatic art forms and formal speaking. On the more traditional level, English courses include literature, reading and writing development, and spelling improvement. Also offered is instruction in media production and publication.

Course	Recommended Grade Level
1200 English 9	9
1202 Communication Arts and Skills	11-12
1220 English 10	10
1221 Creative Writing	11-12
1225 English 11	11
1230 English 12	12
1231 Stories, Novels and Plays	11-12
1240 AP English	12

1200 English 9 (Required) **Grades: 9** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To provide students with an extensive study of basic language skills. Students will be involved in writing paragraphs and compositions where emphasis will be on organization and clarity. Some creative writing and oral work will be assigned. In Literature, the students learn terms and techniques related to each form, read many selections of each and discuss or write about most selections.

Topics studied:

1. Review of grammar
2. Writing mechanics
3. Paragraph organization
4. Study skills
5. Library skills
6. Short stories
7. Poetry
8. Plays
9. Essays
10. Biographies
11. Autobiographies

1220 English 10 (Required) **Grades: 10** **Credit: 1 (2 semesters)**

Prerequisite: English 9

Purpose: English 10 will be a continuance and mastery of the language arts skills learned in English 9. The focus of the course will be on the construction of a variety of compositions by use of the writing process, pre-writing to publication. Focus will also be on note-taking, listening, and organizational skills as well as strategies meant to assist students in better understanding both fiction and informational texts.

Topics studied:

1. Reading fiction and non-fiction & grammar development
2. Writing mechanics
3. The 7 modes of paragraph
4. The 5 paragraph essay
5. Listening skills
6. Group dynamics
7. Discussion
8. Writing about literature

1225 English 11 (Required) **Grades: 11** **Credit: 1 (2 semesters)**

Prerequisite: English 10

Purpose: To begin preparing students for college level reading and writing. The study and analysis of both college level informational and literary texts will be the focus of the reading in the course. For writing, students will write papers in persuasive, narrative, and expository forms, with an emphasis placed on conventional correctness (i.e. grammar and formatting), as well as the use of support, research, and rhetorical methodology.

Topics studied:

1. Exploring the human condition through literature; relating literary themes to our own lives
2. Forming strategies to encounter difficult texts
3. Enhancing technical writing skills for higher level writing
4. Learning how to process and utilize information
5. Synthesizing information with critical thinking in written and oral forms
6. Developing rhetorical strategies to persuade audiences
7. Developing strategies to decipher difficult vocabulary
8. Utilizing and mastering the writing process of prewriting, writing, editing, and revising
9. Learning how to share research with audiences
10. Using language as a creative form of self-expression

1230 English 12 (Required) **Grades: 12** **Credit: 1 (2 semesters)**

Prerequisite: English 10

Purpose: To prepare students for college and/or the professional world. This course is a melding of both college preparation and workplace preparation. Students will continue to develop their understanding of college level reading and writing while also learning strategies to become successful contributors to the workforce. To achieve these objectives, a wide range of texts will be studied, including but not excluded to literary texts, informational texts, and current events in the media. Students will also learn how to write for numerous types of audiences, including but not excluded to academic, social, and professional.

Topics studied:

1. Exploring the human condition through literature; relating literary themes to our own lives
2. Forming strategies to encounter difficult texts
3. Enhancing technical writing skills for higher level writing
4. Learning how to process and utilize information
5. Synthesizing information with critical thinking in written and oral forms
6. Developing rhetorical strategies to persuade audiences
7. Developing strategies to decipher difficult vocabulary
8. Utilizing and mastering the writing process of prewriting, writing, editing, and revising
9. Learning how to share research with audiences
10. Using language as a creative form of self-expression

1240 Advanced Placement English **Grades: 12** **Credit: 1 (2 semesters)**

(May be taken in place of English 12 with permission)

Prerequisites: English 11 and Application for admission

Purpose: This course is a comprehensive study in the major areas of English, designed for the aggressive college-bound student. The course will survey British and World Literature in relationship to literary heritage and systems of government. Students will be encouraged to take the Advanced Placement Test in May, which requires a fee paid by the student.

Topics studied:

1. An extensive study of British, World, and governmental themes in literature
2. Extensive visual and spoken presentations
3. Self-directed and cooperative learning
4. Exposure to the humanities
5. Analysis, evaluation, and interpretation of literature
6. Advanced vocabulary and grammatical reviews
7. Review of writing structures and techniques
8. College level reading, vocabulary, and study skills
9. Preparation for the Advanced Placement Test in literature and composition
10. A culminating Senior Exhibition

1202 Communication Arts and Skills **Grades: 11-12** **Credit: .5 (1 semester)**

Prerequisite: None

Purpose: One goal of this course is to acquaint the student with various forms of communication, discussion, oral interpretation, and acting. Another goal is to make the student more relaxed and skilled in the use of the body and voice in both a formal and informal situation as both an individual and a co-participant.

Topics studied:

1. Oral reading techniques
2. Several oral readings: 30 seconds to 8 minutes
3. Public speaking techniques
4. Several speeches: 1 to 10 minutes
5. Michigan Interscholastic Forensic Association Rules of Competition
6. Group processes and rules for discussion (optional)
7. Listening
8. Debate (optional)
9. Pantomiming
10. Role-playing
11. Improvisation
12. Acting

1221 Creative Writing **Grades: 11-12** **Credit: 1.0 (2 semesters)**

Prerequisite: English 9

Purpose: To explore all of the areas of creative writing, including short stories, poetry and short plays. This will involve criticism and revision, possible imitation of models, publication and performance presentations and creative writing forums, and possible investigation into job markets and careers. Students will share with others almost everything written for the class. Participation will also be required in constructive criticism of others' writing. A portfolio of student's semester writing will be created as part of the final exam.

Topics studied:

1. Scene description
2. Character sketches
3. Narrative sketches
4. Dialogue sketches
5. Short story
6. Poetry forms and types
7. One-act plays
8. Descriptive/narrative
9. Revision
10. Memorization
11. Recitation
12. Reading performance

**Elective credit will be given for this course starting with the class of 2011.*

1231 Stories, Novels & Plays **Grades: 11-12** **Credit: .5 (1 semester)**

Prerequisite: English 9 and 10

Purpose: To provide students with experience in reading a diverse selection of short stories, novels and plays. This class encourages students to respond to these readings through a variety of techniques: reader's journal, group discussions, formal and informal writing and special projects, students will also compare some selections with video adaptations.

Topics studied:

1. Short stories
2. Novels
3. Drama
4. Film adaptation

Focus on Freshmen

5001 Focus on Freshmen **Grades: 9** **Credit: 1.0 (2 semesters)**

Prerequisite: None

Purpose: The class begins with a unit on the transition to High School, building communication and conflict resolution skills, exploring connections to the community, understanding learning styles and personal values, goal setting, and respecting diversity. The second portion of the class focuses on exploring each career pathway available. Students will become aware of different fields or careers and consider their interest in each field, and how that will affect their four years of high school. Students will consider the steps that must be taken to reach goals in different career areas, and the connection between core curriculum and the world of work. Students will begin construction of a portfolio that they will use throughout their high school career. The portfolio will contain: EDP, autobiography, resume, and examples of proficiency, and career pathway explorations. Career Cruising will be used to assist in the process.

Foreign Language Department

Foreign Language classes are currently being offered on Michigan Virtual School, an on-line program, or in conjunction with area community colleges.

In the event that the C-S Foreign Language Department offers Spanish, the curriculum would be as set below.

Course	Recommended Grade Level
1400 Spanish I	10-12
1420 Spanish II	11-12
1401 German I	10-12
1421 German II	11-12

1400 Spanish I **Grades: 10 -12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To provide a basic instruction to the Spanish language and culture with emphasis on word comprehension and understanding. Upon completion of this course, students should be able to carry on and understand basic conversation as well as have comprehension of basic grammar.

Topics studied:

1. Vocabulary
2. Grammar
3. Spelling
4. Writing techniques
5. Basic phrases
6. Conversational speaking
7. Composition and memorization of original dialogue
8. Spanish culture, customs and geography

1420 Spanish II **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: Spanish I

Purpose: To provide an increased knowledge level of the Spanish language which will allow the student to converse in both written and oral communication at a somewhat fluent level.

Topics studied: A basic construction of the topics studied in Spanish I with increased emphasis on composition, reading, and conversational comprehension. The first nine weeks will be spent in the review of grammar and vocabulary of Spanish I.

1401 German I **Grades 10-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To provide a basic introduction to the German language and culture with emphasis on word comprehension and understanding. Upon successful completion of this course, students should be able to carry on and understand basic conversation as well as have comprehension of basic grammar.

Topics studied:

1. Vocabulary
2. Grammar
3. Spelling
4. Writing techniques
5. Basic phrases
6. Conversational speaking
7. Composition and memorization of original dialogue
8. German culture, customs and geography

1421 German II **Grades 11-12** **Credit: 1 (2 semesters)**

Prerequisite: German I

Purpose: To provide an increased knowledge level of the German language allowing the student to converse in both written and oral communication at a somewhat fluent level.

Topics studied: A basic construction of the topics studied in German I with increased emphasis on composition, reading, and conversational comprehension. The first nine weeks will be spent in the review of grammar and vocabulary of German I.

Health/Physical Education Department

Physical Education is designed to promote and create an awareness of physical fitness, both now and in the future. These classes are offered to teach skills that can be carried on into life after graduation. Team sports are offered for those students who enjoy working in groups to achieve a common goal. Each Physical Education class will receive instruction in weight training and fitness activities for lifetime application.

Course	Recommended Grade Level
1500 Health	9
1501 Physical Education	9
1520 Advanced Physical Education	10-12

1500 Health (Coed) **Grades: 9** **Credit: .5 (1 semester)**

Prerequisite: None

Purpose: To provide students with a background in basic health principles which can be applied throughout their lives. No other courses can be substituted for this class credit.

Topics studied:

1. Substance use and abuse
2. Physical Fitness
3. Personal appearance/hygiene
4. Disease: Major killers
5. Personality
6. Body systems
7. First Aid/CPR
8. Nutrition and exercise
9. Emotions and human relations
10. Stress and your health
11. Teen suicide
12. Reproductive health

1501 Physical Education (Coed) **Grades: 9** **Credit: .5 (1 semester)**

Prerequisite: None

Purpose: To provide students with a background in basic physical education principles which can be applied to both physical and mental health throughout their lives.

Topics studied:

1. Football
2. Basketball
3. Volleyball
4. Soccer/Speed ball
5. Softball
6. Weight lifting/Physical fitness
7. Circuit training

1520 Advanced Physical Education **Grades: 10 -12** **Credit: 1 (2 semesters)**

Prerequisite: 9th grade PE and permission of the instructor.

Purpose: To provide students with the opportunity to improve muscular strength and power, speed and endurance. Students will receive instruction on executing power and Olympic lifts as well as lifts to improve balance and coordination. This class is designed to improve the athleticism in any student.

Topics studied:

1. Major muscles
2. Circuit training
3. Interval training
4. Elements of fitness
5. Sports training principles
6. Methods of weight training

Mathematics Department

The offerings within the Mathematics Department are designed to give each student the skills needed to prepare an individual for jobs or further education after graduating and for certain science classes. Four (4) math credits are required for graduation and a student must take a math class their senior year.

Course	Recommended Grade Level
1014 Algebra I	8-9
1020 Geometry	9-11
1030 Algebra II	9-12
1040 Math Analysis (Pre-calculus)	11-12
1041 Trigonometry	11-12
1051 Probability & Statistics	11-12
1060 Calculus	12

1014 Algebra I **Grades: 8-9** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To introduce students to the first steps of higher mathematics, the main emphasis of the course being finding solutions to various types of equations and inequalities.

Topics studied:

1. Number systems and real number properties
2. Solving linear equations
3. Graphing relations & functions
4. Analyzing linear equations
5. Solving linear inequalities
6. Solving systems of linear equations & inequalities
7. Operations with polynomials
8. Factoring polynomials
9. Quadratic & exponential functions
10. Radical expressions & equations

1020 Geometry **Grades: 9-12** **Credit: 1 (2 semesters)**

Prerequisite: Algebra I

Purpose: Geometry is the study of objects in two and three dimensions. This study further develops a student's logical thinking process and analytical abilities. This course is recommended for any student seeking education beyond high school.

Topics studied:

1. Points, lines, planes, and angles
2. Parallel lines and planes
3. Deductive reasoning and proofs
4. Applications of congruent triangles
5. Polygons and their properties
6. Relationships of right triangles
7. Introduction to trigonometry
8. Circles

1030 Algebra II **Grades: 9-12** **Credit: 1 (2 semesters)**

Prerequisite: Algebra I

Purpose: A more advanced study of Algebra. Students will learn to master the skills acquired in Algebra I and new functions that will be helpful in other advanced math and science courses.

Topics studied:

1. Further study of real number system
2. Equations and inequalities
3. Graphs and functions
4. Polynomials and factoring
5. Rational and irrational expressions
6. Complex number systems
7. Quadratic equations
8. Linear systems
9. Coordinate geometry
10. Matrices

1040 Math Analysis **Grades: 11-12** **Credit: .5 (1st semester only)**

Prerequisite: Algebra I, Algebra II, Geometry

Purpose: A pre-calculus course designed for students who are planning future mathematics and science study.

Topics studied:

1. Advanced polynomials and their graphs
2. Functions and their inverses
3. Exponential equations
4. Logarithms and their applications
5. Sequences and series (sigma notation)
6. Conic sections (ellipses, hyperboles, parabolas)
7. Probability

1041 Trigonometry **Grades: 11-12** **Credit: .5 (2nd semester only)**

Prerequisite: Algebra I, Algebra II and Geometry; Math Analysis recommended

Purpose: A course to give all students in advanced mathematics an understanding of the concepts and uses of trigonometry.

Topics studied:

1. Trigonometry functions and their inverse
2. Graphs of trigonometric functions
3. Triangle trigonometry
4. Trigonometric identities
5. Radian measure
6. Polar coordinates
7. Applications of trigonometry

Calculus **Grades: 12** **Credit: 1 (2 semesters)**

Prerequisite: Math Analysis and Trigonometry

Purpose: The course will explore a network of fundamentally important ideas. Numerical, analytical, and geometric means will be employed to aid in the development of important concepts, both in practical and in theoretical ways.

Topics studied:

1. Two major notions will be pursued: *derivative* (the study of instantaneous change) and *definite integral* (the study of cumulative change).
2. The concept of *limit* will be introduced and studied in detail.
3. Graphing calculators and/or computers will be used both in the exploration of ideas and to facilitate problem solving.
4. Important issues for the use of technology will be addressed, including *limitations* and *cautions*.

1620 - BMA Accounting **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To teach students how to organize personal and business financial information. The course will provide students with basic knowledge to manage their own financial records as well as possibly move into advanced accounting classes at the college level. Also, this course will provide students with the opportunity to gain the basic skills necessary for employment in an office or business related environment. Students have the opportunity to earn articulated credit at KVCC, as long as they receive a "B" or higher in this class. Applications for articulated credit are completed in May of each academic year.

Topics studied:

1. Recording and reporting of business transaction in journals, ledgers, and financial documents
2. Accounting for a sole proprietorship and a partnership
3. Automated accounting systems
4. Completing tax forms
5. Proper Interviewing Techniques
6. Portfolio Completion

1051 - Probability & Statistics **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: Algebra I

Purpose: To expose students to statistics, statistical methods and probability. Graphing calculators will be used to perform many of the methods used to analyze data.

Topics studied:

1. Frequency distributions
2. Probability
3. Normal distributions
4. Confidence intervals and sample size 2.
5. Hypothesis testing
6. Variances, correlation and regression

Music Department

The Music Department of Climax-Scotts High School is dedicated to fulfilling the needs and interests of all students in the system. During the school year creative performances, service projects, and travel opportunities are required for students in the program. It is the desire of the Music Department to provide a means for the students to gain an appreciation of all forms of music.

Course	Recommended Grade Level
1800 High School Band	9-12
1801 Choir	9-12
5006 Music Appreciation	9-12
5008 Jazz Band	9-12

1800 High School Band **Grades: 9-12** **Credit: 1 (2 semesters)**

Prerequisite: Teacher recommendation

Purpose: The purpose of the organization is to provide a far-reaching educational experience in the field of instrumental music. The goals are to make the band program the best it can be in performance achievement, musical knowledge, musical and performance exposure, and to develop intrinsic values of self-discipline, pride, respect, and cooperation. The ultimate goal of study is to develop a life-long appreciation for music. Students should consider band a yearlong commitment and plan accordingly.

Class Required Activities/Responsibilities: The Marching Band performs at all home football games, Homecoming and Memorial Day parades and some years at District and State marching festivals. The Concert Band performs at two (2) concerts during the year, usually in December, February, and May as well as District and State festivals, plus graduation. The Pep Band performs at all Friday home basketball games. Other responsibilities required of band students are to attend any trip or field trip that may occur and attend **pre- or post-school rehearsals** in preparation for marching and concert seasons. Band camp is required and graded. ***All marching students must attend the camp that occurs in August*****.**

Topics studied:

1. Fundamentals of Marching Band
2. Concert Band
3. Popular and traditional music
4. Critical listening
5. Music history
6. Music theory
7. Music appreciation
8. Aesthetic sensitivity

1801 Choir **Grades: 9-12** **Credit: 1 (2 semesters)**

Purpose: Choir allows students to study and participate in an activity-oriented class. The choral program exposes students to a variety of music styles; develops vocal techniques and is a means of stimulation creative, artistic, social and musical growth. Each student is required to prepare and perform a solo or small ensemble selection for class credit. The choir performs at least three (3) concerts a year, usually in December, March, and May. Additionally, the choir goes Christmas caroling, performs for local groups and associations, and attends the Southwestern Michigan vocal festival in March.

Topics studied:

1. Vocal techniques
2. Musical styles
3. Music history
4. Music theory
5. Music appreciation
6. Critical listening

5008 Jazz Band **Grades: 9-12** **Credit: 1 (2 semesters)**

Prerequisite: Permission of Instructor, Joint membership in High School Band

Purpose: Students will learn and develop musical skills in jazz. Emphasis will be on jazz styles, rhythms, articulations, and improvisation, as well as introductory jazz history and theory. Students will develop advanced sight-reading skills, and learn to read basic chord symbols, changes, and lead sheets. Students will demonstrate these skills in school concerts, as well as extra-curricular performances and music festivals. This class is open by audition to all high school students.

Publications

1201 Publications **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: Maximum class size of 15 students. Enrollment in class is by teacher approval only, based on student's qualifications and teacher recommendations.

Purpose: The main project of the class will be to produce the school yearbook. Production will involve several phases of publishing, including: design and layout, photography, and advertising. Production work will include a variety of styles of writing and use of a web-based computer program to aid the production process. As part of the class and grade, students will be required to actively sell advertising space, as outside advertisement is the major source of funding for this publication. In addition, students are expected to take pictures at events at the school, requiring their attendance at sporting events. Deadlines must be met throughout the year. Failure to meet deadlines will result in removal from the class.

Topics studied:

1. Photography
2. Advertising
3. Graphic design, layout and lettering

Science Department

The courses in the Science Department provide an opportunity for students to gain knowledge in each of the sciences. Some of the courses go into more depth than others and are designed for the student who wants a stronger preparation for college level work.

Course	Recommended Grade Level
1100 Intro to Physics	9-11
1112 Life Science	10
1120 Biology I	9-11
1121 Biology II	11-12
1130 Environmental Science	11-12
1131 Chemistry	11-12
1132 Chemistry in the Community	11-12
1141 Physics	11-12
1140 Research in Science	11-12

1100 Intro to Physics **Grades: 9-10** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: The first component of this course is a study of structure and properties of matter and extends its focus to how forces arise from the interactions between fields. The second component is a focus on forces, but shifts to a study of collisions at the macroscopic scale. The third component focuses on forces and energy transfer when objects interact, and the component ends the course by focusing on harnessing energy transfer for communication purposes. Throughout the course, relevant Earth and Space Sciences and Engineering Design concepts are integrated.

Topics studied:

1. Energy
2. Forces & interactions
3. Structure and properties of matter
4. Waves and electromagnetic radiation

1112 Life Science **Grades: 10** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: Life Science is a study of plants and animals. Students learn relationships between organisms. The course will start with the simplest forms of life and gradually build up the most complex plants and animals. This course is not designed for students majoring in the sciences. No student can receive credit for Life Science if credit has been earned in Biology I.

Topics studied:

1. Cells, molecules, and matter
2. The working of the basic living cell
3. The environment as it affects your life
4. Types of plants from the simplest to the most complex
5. Ecology
6. Warm- and cold-blooded vertebrates
7. Bodily functions: digestion, respiration, circulation

1120 Biology I **Grades: 9-11** **Credit: 1 (2 semesters)**

Prerequisite: Intro to Physics or teacher approval

Purpose: The structure and function of plants and animals will be with appropriate laboratory experiments when possible.

Topics studied:

1. Molecular biology
2. Theories of evolution/natural selection
3. Chemicals of life
4. Cell structure
5. Photosynthesis/respiration
6. DNA, RNA, and genetic code
7. Reproduction
8. Development of organisms
9. Seven principal systems of organisms
10. Ecology

1121 Biology II: Anatomy & Physiology **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: at least a "B" in Biology I and prior approval from Biology II instructor.

Purpose: Biology II is an opportunity for students to learn more about structures and functions of mammals. The structures of the cat and other organs will be compared to the structures of man. Highly demanding course.

Topics studied:

1. External anatomy
2. Skeletal system and function
3. Muscular system and function
4. Sense organs and functions
5. Nervous system and functions
6. Cellular Biology
7. Human Biology
8. Heredity

1130 Environmental Science **Grades: 11-12** **Credit: .5 (1st semester)**

Prerequisite: Algebra and Biology I

Purpose: This class explores aspects of the environment such as water, atmosphere, mineral resources, plant and animal life and energy.

Topics studied:

1. Ecosystems
2. Hydrosphere, atmosphere, biosphere impacts pollution
3. Energy resource
4. Human impact
5. Sustainability

1131 Chemistry **Grades: 10-12** **Credit: 1 (2 semesters)**

Prerequisite: Algebra I and enrolled in Algebra II and prior approval from Chemistry teacher.

Purpose: The first component of this course is an overview of the study of structure and properties of matter and extends this focus to explaining the outcome of a simple chemical reaction based on the outermost electron states of atoms, trends in the periodic table, and knowledge of the patterns of chemical properties. The second component illustrates that the release or absorption of energy from a chemical reaction system depends upon the changes in total bond energy. The third component of this course focuses on application of scientific principles and evidence to provide an explanation about the effects of changing the temperature or concentration of the reacting particles on the rate at which a reaction occurs. The fourth component of the course is a focus on the design of a chemical system by specifying a change in conditions that would produce increased amounts of products at equilibrium. The fifth component of this course has the student use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction.

Topics studied:

1. Structure & properties of matter
2. Chemical reactions
3. Nuclear processes
4. Types of Interactions
5. Stability & instability
6 .Energy in chemical processes & life

1132 General Chemistry **Grades: 11-12** **Credit: .5 (2nd semester)**

Prerequisite: Algebra (cannot enroll if currently or previously enrolled in Chemistry)

Purpose: This class covers concepts in the context of societal issues. Students learn concepts on a need-to-know basis, evaluate data, and make decisions based on their knowledge and observations. The course features activities that give students practice in applying their knowledge of chemistry.

Topics studied:

1. Organic Chemistry
2. Biochemistry
3. Environmental Chemistry
4. Industrial Chemistry

1141 Physics **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: Algebra II and enrolled in Math Analysis and Trigonometry and approval from Physics teacher and math teacher.

Purpose: Students will investigate the laws that govern space, time, forces, motion, matter, and energy. Special emphasis will be Newton's laws of motion, the four universal forces governing motion (gravitational forces, electromagnetic forces, strong nuclear forces, and weak nuclear forces). Additional emphasis will be given to energy and the conservation of energy.

Topics studied:

1. Motion
2. Forces & Motion
3. Forces in fluids
4. Work, power, & machines
5. Energy
6. Thermal energy & heat
7. Mechanical waves and sound
8. The electromagnetic spectrum & light
9. Optics
10. Electricity
11. Magnetism

Social Studies Department

The Social Studies program offers a framework of fundamental ideas concerning history, civics, geography, world cultures, and government. These generalizations are continuously expanded by details to give more facts and information. The student is helped to develop the ability to formulate new concepts and to relate them to the ideas previously learned.

Course	Recommended Grade Level
1302 World History/Geography	10(required)
1320 U.S. History/Geography	9(required)
1322 Sociology	10-12
1323 Psychology	10-12
1340 Government	11
1350 Economics	11

1320 U.S. History/Geography **Grades: 9** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: The objective in this course is to give students 1877-present view of the United States history. Only fundamental information will be covered for each topic so that students may survey and envision the total picture of our nation's history.

Topics studied:

1. The industrial revolution and American urbanization
2. The rise of America as a world power
3. World War I
4. The 1920's & 1930's: from boom to bust
5. World War II
6. The Cold War and the Korean War
7. The Vietnam War
8. Events & issues of the 1970's, 1980's & 1990's
9. Current events

1302 World History/Geography **Grades: 10** **Credit: 1 (2 semesters)**

Prerequisite: US History/Geography

Purpose: This course will provide students with a process of viewing other cultures. Students will study each area with respect to geography and historical/cultural development and value. Special emphasis will be given to each area's environment, language, contemporary attitudes and values, customs regarding child bearing, marriage, death, work, the economy, religion, government, and other aspects of the culture. Comparisons and contrasts will be made between industrialized and Third World nations in terms of factors which characterize each, plus the positive and negative aspects of varying levels of technological development in a given nation. Every effort will be made to help the student view the cultural uniqueness of the people studied.

Topics studied:

1. Western Europe
2. The Middle East
3. China
4. Latin America
5. The former Soviet Union
6. Asia (South and Southeast)
7. Africa

1340 Government **Grades: 11** **Credit: .5 (1 semester)**

Prerequisite: None

Purpose: Through the study of current events as well as the origins of the national government, students will be exposed to information that will allow them to be more responsible citizens.

Topics studied:

1. Origins of our national government
2. Relationship between the federal and state government
3. The function of duties of the executive, judicial, and legislative branches of state government
4. The function and duties of the executive, judicial, and legislative branches of the national government
5. Current events
6. Court system
7. Elections and Voting
8. Political parties

1350 Economics **Grades: 11** **Credit: .5 (1 semester)**

Prerequisite: None

Purpose: Students will study the basic concepts of economics.

Topics studied:

1. Law of scarcity
2. International economic systems
3. Productivity
4. Basic concepts published by the National Council of Economics Education
5. Stock market
6. Personal finance
7. Current economic issues

1322 Sociology **Grades: 11-12** **Credit: .5 (1 semester)**

Prerequisite: A minimum of one high school social studies credit.

Purpose: This course is designed to expose students to many social relationships that exist and their responsibilities to them in our complex society.

Topics studied:

1. Social institutions: family, education, religion, government, and the economy
2. Social problems: crime, abuse, suicide, divorce, poverty
3. Human relationships and sex-role responsibilities

1323 Psychology **Grades: 11-12** **Credit: .5 (1 semester)**

Prerequisite: A minimum of one high school social studies credit.

Purpose: The course is designed to acquaint students with ideas and topics that will allow them to gain a better understanding of themselves. This is an entry-level course in the study of the mind and its functions.

Topics studied:

1. Psychological methods
2. Human development
3. Personality theory
4. Learning theory
5. Thinking
6. Intelligence
7. Motivation
8. Analysis and treatment of abnormal behavior

Technology Department

As future consumers, students need to know how to select, use, and maintain many of items necessary for proper home repair. Technology education helps to develop skills, habits, and attitudes necessary for successful employment. Please note that students are required to wear safety glasses at all times when in the shop area. Students may be responsible for a material fee.

Course	Recommended Grade Level
2001 Wood Technology I	9-12
2020 Wood Technology II	10-12
2025 Wood Technology III	11-12
2026 Wood Technology IV	12
2023 CADD	10-12
2024 21st Century Media	10-12

2001 Woods Technology I **Grades: 9-12** **Credit: 1 (2 semesters)**

Prerequisite: None

Purpose: To teach students the proper and safe use of machines available in the shop. To give students a chance to see the possible jobs that are available in the woodworking field while providing information that will help purchase quality wood products.

Topics studied:

1. Board feet problems
2. Bill materials
3. Identification of types of hard and soft wood
4. Proper operation of all shop machines
5. Safety rules for all shop machines
6. Drilling and boring procedures
7. Wood joints, wood finishing, gluing and clamping

2020 Woods Technology II **Grades: 10-12** **Credit: 1 (2 semesters)**

Prerequisite: Woods Technology I

Purpose: To develop the skills gained in Woods Technology I while gaining a degree of knowledge and skill in the area of cabinet making.

Topics studied:

1. Frame construction
2. Leg and rail construction
3. Box or chest construction
4. Furniture design
5. Attention to standard sizes
6. Safety practices and procedures
7. Working parts of shop machines

2025 Woods Technology III **Grades: 11-12** **Credit: 1 (2 semesters)**

Prerequisite: Woods Technology I & II

Purpose: To further develop the skills gained in Woods Technology I & II while gaining a degree of knowledge and skill in the area of furniture making.

Topics studied:

1. Frame construction
2. Leg and rail construction
3. Box or chest construction
4. Furniture design
5. Attention to standard sizes
6. Safety practices and procedures
7. Working parts of shop machines

2026 Woods Technology IV **Grades: 12** **Credit: 1 (2 semesters)**

Prerequisite: Woods Technology I, II, III

Purpose: To further develop the skills gained in Woods Technology I, II, & III while gaining an advanced knowledge and skill in the area of furniture making.

Topics studied:

1. Frame construction
2. Leg and rail construction
3. Box or chest construction
4. Furniture design
5. Attention to standard sizes
6. Safety practices and procedures
7. Working parts of shop machines

Education for the Arts (EFA)/Education for Employment (EFE)

Education for the Arts and Education for Employment courses are offered countywide to students who are juniors and seniors. Education for Employment programs may involve traveling to other schools. Seniors who could not elect a career and technical education course in their junior year will be allowed to participate.

Students must have good attendance records to be considered for EFE.

Requirements

1. Junior or senior in good credit standing. Juniors must have at least twelve (12) credits and seniors must have at least sixteen (16) credits at the beginning of their senior year.
2. Completed application for the program and approval for participation through the application process.
3. Permission of parent or guardian for participation.
4. Commitment to a full-year placement in an EFE training program as arranged by the EFE Office.
5. Willingness to participate in extra-curricular activities as required by the EFE training program.
6. Procedures for verification and assessment, as set forth by the EFE Office, adhered to by the student and the school.
7. **Enrolled in at least four (4) class periods at Climax-Scotts.**

Application

A complete application form and required teacher recommendations must be submitted to the principal during the spring enrollment prior to the semester in which the student wishes to enroll. Applications and teacher recommendation forms are available in the Guidance Office.

Evaluation

Evaluation will be the responsibility of the teacher/supervisor of the EFE training.

Credit

One-half (1/2) credit will be given for successful completion of one class period of EFE each semester. Students will earn at least 2.0 credits for the full year.

EDUCATION FOR THE ARTS
2018-2019 COURSE DESCRIPTIONS

DANCE

Modern/Jazz Dance Studio
Comstock / Loy Norrix / Kalamazoo Central / Portage Central
Learn the basic elements and discipline of formal dance technique, exploring classical modern dance, ballet, jazz, hip hop, and cultural dance styles. Exploration of dance-related subjects will include movement improvisation, composition, and dance history. Students gain performance skills, learn how to choreograph their own dances and are required to participate in EFA dance concert at end of trimester. They will have the opportunity to take field trips to see live dance concerts and attend master classes. Students will work with professional dance educators and guest artists.

Intermediate Dance Studio
Kalamazoo Central / Loy Norrix
Intermediate Dance is for students who have completed a beginning EFA class, or have previous dance/movement experience, and are committed to a full year of dance instruction. Students will further their training through in-depth instruction and structured small group student exploration in formal dance technique, classical modern dance, ballet, jazz, hip hop, and cultural dance styles. Exploration of dance-related subjects will include movement improvisation, composition, and dance history. Students will gain performance, composition, and choreographic skills, develop observation, analysis, critical thinking, and reflection skills. Students will prepare and produce a dance presentation each trimester. The class will take field trips to professional dance concerts and have the opportunity to work with master guest artists.

Integrated Dance / Health / PE
Kalamazoo Community Education Center
This class integrates dance, physical education, and health. First semester students study dance and physical education, earning ½ credit in fine arts and ½ credit in PE. Second semester students will study dance and health, earning ½ credit in health and an additional ½ credit in fine arts. The course affords students opportunities to develop creative skills in dance, explore a variety of lifetime fitness and sports activities, and learn about important diet, nutrition and health-related issues.

LITERARY ARTS

Creative Writing Online
Web based
Through the study of written works in various forms and the regular practice of writing, students will achieve a better understanding of the creative writing process. Additionally, students will collaborate on a few projects, and will read and critique one another's work through small group workshops (held through discussion forums). Students will turn in four major creative writing assignments, regular creative writing exercises, three short reflections, a recording of student performing one of their assignments, and an online portfolio.

Digital Storytelling Online
Web based
Through the study of digital stories in various forms, students will develop their own stories and share them through various online channels. Students will learn how to use apps, websites, and other tools to create their own work. They will view and critique one another's work and engage in weekly forum based class discussions. Students will turn in four major storytelling projects, regular annotated photographs, three short reflections, several shorter writing and image based assignments, and an online portfolio.

NEW! Media Literacy: Analyzing and Interpreting Moving Images
Web based and at High School
Learn the techniques and tools that media producers use to persuasively deliver a message or provoke an emotionally response to viewers. Decipher the effect that cinematic techniques have on delivering a message, theme, or narrative by examining these techniques in motion pictures and other mainstream and social media sources. Learn to see the images apart from the content in order to critically analyze and understand how the technical aspects of image, sound, and script are purposefully used to make the viewer think and feel. Actively research cinematic/media techniques, watch and critique media sources, and develop critical skills in description, analysis and interpretation of media sources.

NEW! Comics, Manga and Graphic Novel Arts
Web based and at High School
Learn to write and produce compelling, artistic and inventive comics or manga, and Graphic Novels. Research the history of comics, study the elements of story, plot, and character development, and the productive use of imagery, layout, and composition. Work individually and collaboratively on projects and develop projects through manipulation and editing of found media and open source graphics.

MEDIA ARTS

Film and Video Arts
Epic Center
Film & Video Arts introduces students to the creation and study of time-based media in video and film. They work with the latest digital technology in creating a variety of works that help them mold and define their own personal visual style for innovative, artistic communication.

Advanced Video Arts Studio
Vicksburg High School
AVAS is a project-based video class for 9-12 grade students who have already taken at least one semester of a video or TV production class. The class will concentrate on individual student films that will be used for portfolio work and entered into video competitions. Students will learn about lighting, sound, directing and advanced filming and editing techniques.

Advanced Multimedia Arts
Epic Center
Continued study of new art forms made possible through the use of new technologies integrating video, music, sound, film, still images, and interactive media. Work individually or in small groups to create time-based and interactive artworks ranging from art for the Internet, interactive video, experimental film, and new media installations/performances. Prerequisite: Film & Video Arts, and/or permission of instructor.

Media Arts Creative Suite
Kalamazoo Valley Community College – Center for New Media
Create artworks using computers as tools and learn how art communicates emotions and ideas. Projects include digital photograph manipulation, art for the Internet, stereo 3D images, digital painting, and combining traditional media with new technologies.

Digital StudioArt
Web based and Epic Center
Digital tools permeate nearly all avenues of media, including such fundamental artistic mediums a drawing and painting. The generations-old techniques once practiced with pencil and paper, brush and canvas, are now increasingly supplemented or even supplanted by pixels and vectors. This class will introduce the basics of drawing and painting using digital means, in the process also giving them an introduction to the basics of digital imaging using Adobe Photoshop and Illustrator. The course is built around the core elements of visual art, such as line, shape, value, and color with an additional emphasis on learning and using the tools of imaging software.

Digital PhotoArt
Web based and Epic Center
This class will introduce, enhance and refine students' ability to express themselves with the aid of digital cameras. Students will learn proper photographic technique, computer enhancement of photos, printing and professional presentation techniques. The students will have many assignments ranging from core photography fundamentals to immersive pieces of personal expression. Students will leave class with the beginnings of a portfolio and the knowledge to continue and expand on their work in the future.

MUSIC

Music Studio I
Epic Center
For beginning music students who read music with low or no proficiency. Students will: 1) Learn to read music and basic music theory (including note identification, key signature, and time signature); 2) Learn basic keyboard skills; 3) Create music in solo and small ensemble settings using instruments, electronic media and recording; 4) Encounter music of many genres and experience and discuss great live performances. The curriculum and instruction will utilize the latest computer hardware and software in a state-of-the-art technology.

Advanced Music Studio
Epic Center
This class is for moderate to advanced level music students who read music with moderate proficiency, and know basic music theory. Students will: 1) Expand knowledge of music theory concepts and ear training (including scales, circle of 5ths chords theory, harmonization); 2) Compose music in solo and small ensemble settings using instruments, electronic media and recording; 3) Encounter music of many genres, and experience and discuss great live performances; 4) Explore aspects of careers in music production and support services. The curriculum and instruction will utilize the latest computer hardware and software in a state-of-the-art technology lab.

Kalamazoo RESA Education for Employment
2018-2019 Course Descriptions

Arts and Communication Career Pathway

Art & Design Career Skills

This course allows students to explore and perfect skills in various art media, use professional quality art materials, work on Macintosh computers and tablets, and learn the Adobe Creative Suites programs including Photoshop, Illustrator and InDesign. Students will attend trips to art exhibitions and performances, design firms and school of art tours. Students will research various post-secondary programs and careers in commercial art and design, which may include animation, digital art, fashion design, graphic design, interior design, photography, printmaking, visual art and more. Designers working in the industry, as well as representatives from post-secondary institutions will visit the classroom to consult with students. Students will create a resume, assemble a professional portfolio and attend a portfolio review in preparation for college admissions and internships.

This class may be taken for multiple years.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math and Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.

Digital Video Production

This course provides students with entry-level skills in the expanding field of digital production: corporate video departments, broadcast television stations, advertising agencies, media production companies and independent production companies. This course emphasizes the skills and work ethic needed for these exciting careers. Areas of study and practice will focus on documentaries, educational programming and television journalism projects. This class provides students with the opportunity to enter local and national competitions as well as airing student work on Public Media Network stations. All these skills revolve around the use of proper techniques to produce high-quality video and audio using digital technology. Whether you want to see your name in lights or scrolling by in the end credits, this course will teach you how to use technology to communicate effectively with the audience. Students may take this course for two years.

**Taught at Public Media Network at the Epic Center*
**Potential for articulated credits with Davenport University and Ferris State University*
**2nd World Language Credit*
**3rd Science Credit*
**Visual Performing & Applied Arts Credit*

Radio Broadcasting

This course is ideal for students who want to work in the field of radio broadcasting. Students will gain work experience on a student run and managed radio station, 89.9 FM WKDS. This course explores all aspects of the radio broadcasting industry including radio production, being an on-air personality, marketing, sales, promotion, engineering, writing for radio news and the history of the industry. Students may take this course for two years.

**Taught at Public Media Network at the Epic Center*
**Potential for articulated credits with Ferris State University*
**2nd World Language Credit*
**3rd Science Credit*
**Visual Performing & Applied Arts Credit*

BUSINESS, MANAGEMENT, MARKETING TECHNOLOGY PATHWAY

Basic Accounting/Accounting I

This course provides students with basic recordkeeping skills in small businesses. Using both manual and computerized methods, students start accounting systems, record business transactions for sole proprietorships and partnerships, and practice petty cash and payroll procedures.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.

Advanced Accounting/Accounting II

Students who enroll in the second year become proficient in computerized systems, advanced application, analysis and financial decision making. Competencies include departmentalized accounting procedures, completing payroll, budgeting, and financial analysis.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.

Banking & Finance

This course provides students with a background in customer service, personal finance, budgeting, investment planning, and business financial management. Students gain exposure to the various career options in the field. They learn how the financial decisions that they make today affect their future.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Business Administration Management & Operations (BMA)

This course provides students with a solid foundation of business skills, knowledge and understanding that are necessary for success in a global society. Topics include human resources, operations and quality management, communications, business management and leadership, project management, business ethics, international business, employability skills, career exploration and more. Students will utilize information technology and software applications to complete business projects and share ideas. Students will learn to solve business problems that occur in the working environment. This exciting business class prepares students for employment and for the pursuit of a business degree after high school.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit,*
Visual Performing & Applied Arts Credit
This is an Early/Middle College eligible program.

Computer Technology I

This course is designed to provide students with the knowledge and skills necessary to pursue a career in the computer technology industry. Materials covered will be aligned specifically for the CompTia A+ certification, which is required by most employers in the IT/computer repair industry. There will be a significant amount of hands-on opportunities including maintaining, upgrading, troubleshooting, repairing computers and software. Important non-technical skills will also be covered such as good documentation techniques, communication skills, project collaboration, resume building and interview preparation.
**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.

Computer Technology II

The second-year course concentrates on the requirements of the CompTIA Network+ and CompTIA Security+ certifications, which are industry-recognized standards for technicians pursuing a career in network administration/implementation, data center management, and data security. A growing number of high tech firms and companies dealing with the Federal Government are requiring Security+ certification for their IT staff. Study will focus on all aspects of computer network technologies, network & data security, implementation, maintenance, and troubleshooting. In addition, interested students can pursue their MCSA Microsoft Server Certification. The MCSA is neeeded to qualify for a position as a network or computer systems administrator or a computer support specialist. Successful completion of Computer Tech I and teacher approval required.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.

Computer Science/Software Engineering

Computer Science Software Engineering provides an excellent introduction into the computer science world through engaging students in computational thinking. In this course, students create interactive stories using a programming language called Scratch; work in teams to create simple apps for mobile devices using App Inventor; learn introductory elements of text-based programming in Python, and analyze data using Excel. Students will use Arduino Microprocessors to configure circuitry for modern day lifestyles. Students will learn the impact of a computing society and the application of computing across career paths.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*

Culinary Arts

Students taking this course will learn the fundamentals of cooking and baking as well as the science of food safety, the fundamentals and science of food handling, food prep and service, sanitation and safety, maintenance of tools and equipment, and nutritional guidelines. Students also develop the cooking and baking skills necessary to be successful in the culinary industry. The course will emphasize creative, hands-on food preparation, as well as professionalism and work habits required in this industry. Students will have the opportunity to receive work-based training such as job shadowing, field trips and other experiences at area restaurants. The curriculum includes the National Food Industry standards for the ServSafe Certification, an industry credential that verifies that an applicant entering the workforce has the necessary skills for employment.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit,*
**Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.

Marketing/Entrepreneurship

Marketing is the process of planning, pricing, promoting, selling and distributing ideas, goods or services to create exchanges that satisfy a customer. Course work teaches the principles of advertising, display, sales, merchandising, economics and marketing in a global economy. Students train in techniques that businesses and organizations use to persuade consumers to buy products or use services. Students will learn about types of social media and the social media strategies businesses utilize to meet their marketing goals. This exciting course teaches many transferable skills that students can use immediately in the workplace or to pursue a business degree at a postsecondary institution.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit,*
**Visual Performing & Applied Arts Credit*

ENGINEERING, MANUFACTURING, INDUSTRIAL TRADES PATHWAY

Automotive Technology

This National Automotive Technician Education Foundation (NATEF) certified program covers these areas of automotive service: engine, brakes, electrical & electrical systems, steering & suspension, auto & manual transmissions and air conditioning. Students may have the opportunity to become state certified, as well as to earn credit towards completion of an associate degree or other post-secondary training.

Students may take this course for two years.

**Potential for articulated credits with Baker College, Kalamazoo Valley Community College, University of Northwest Ohio*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Algebra II Credit*
This is an Early/Middle College eligible program.

Aviation Technology

Students in this course are dually enrolled and have the opportunity to earn college credit through Kellogg Community College (KCC) in addition to high school credit. The KCC aviation coursework is part of a bridge agreement with Western Michigan University, College of Aviation and is delivered as on-line courses. Wrap-around instruction is provided by EFE to ensure student success at the college level. This program is designed to introduce students to many aspects of the aviation industry and is intended for students with an interest in pursuing any career related to aviation. Students will develop a broad knowledge base in subject areas ranging from evolution of airplanes and commercial aviation, flight operations, weather, airspace, navigation, regulations, and aircraft systems. Students have the opportunity to interact with industry experts and visit leaders in the field of aviation for career exploration. The program will feature many hands-on labs.

Students may take this course for two years.

**Potential for articulated credits with Baker College, Northwestern Michigan College*
**Dual Enrollment at Kellogg Community College with bridge agreement to WMU-College of Aviation*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Computerized Manufacturing

This exciting, fast-paced pre-engineering course provides advanced technology training in computer-aided design and computer manufacturing systems. All equipment is state of the art including Haas and Mazak CNC machining centers. The course uses CAD software including SolidWorks, Mastercam and KeyCreator. It also features demonstrations and maximizes student laboratory work (80% hands-on). Students gain planning, organizing and decision-making skills while also developing acceptable attitude, interpersonal and equipment-related skills. Paid co-op opportunities are available to second-year students who are placed at local manufacturers. Computerized Manufacturing prepares students for immediate employment, advanced schooling and/or apprenticeship opportunities with local area employers.

Students may take this course for two years.

**Potential for articulated credits with Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Visual Performing & Applied Arts Credit
This is an Early/Middle College eligible program.

Construction Trades

This course exposes students to many aspects of the new construction and revitalization industry including site layout, carpentry, electrical, masonry, plumbing, tile setting, HVAC, painting and other construction skill areas. Both male and female students will enjoy the hands-on training experience in remodeling and/or new construction of a home that this course has to offer. Classroom training is also an important component of the class. Students interested in this course should understand basic concepts of measurement and mathematics and be able to work indoors or outdoors.

Students may take this course for two years.

** This program is a partnership with Kalamazoo Valley Habitat for Humanity.*
**Potential for articulated credits with Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Visual Performing & Applied Arts Credit

Electrical Technology

Students in this course are dually enrolled and have the opportunity to earn college credit through Kalamazoo Valley Community College. This course provides instruction and training in the areas of applied electricity, residential wiring and code, and safety and first aid. Students will learn basic electrical theory and practices as well as wiring theory and gain lab experience. Upon successful completion of this course, the student should have the knowledge and ability to wire a residence according to the national electrical code. Throughout the program, students gain valuable practical experience working on residential, commercial and industrial wiring. Students interested in this class should enjoy working with mathematical formulas and algebraic concepts.

**Potential for articulated credits with Baker College*
**Dual enrollment at Kalamazoo Valley Community College - 7 College Credits*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Electronics & Robotics

This is an excellent course for students to use their creativity to solve problems and figure out how things work. A hands-on approach will introduce students to concepts and skills in current and emerging technical fields. The course features high-tech equipment and programs in a student-centered classroom. Projects challenge and engage students' minds to provide a strong foundation that could launch them into engineering or other high-tech careers such as alternative energies, robotics and automated systems, optics, biomedical, and nanotechnology

Students may take this course for two years.

**Potential for articulated credits with Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*
**Algebra II Credit*

Engineering Design

The Engineering Design course allows students to dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. Students work individually and in teams to design solutions to a variety of problems using 3-D modeling software and document their work in an engineering notebook

These courses would benefit students interested in pursuing careers in engineering, manufacturing and construction trades.

**Potential for articulated credits with Baker College, Ferris State Univ., Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Visual Performing & Applied Arts Credit
This is an Early/Middle College eligible program.

Principles of Engineering

Through problems that engage and challenge, students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, automation and robotics. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

These courses would benefit students interested in pursuing careers in engineering, manufacturing and construction trades.

**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Visual Performing & Applied Arts Credit

Engineering Design and Development(EDD): (Capstone Course)

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

These courses would benefit students interested in pursuing careers in engineering, manufacturing and construction trades.

**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Visual Performing & Applied Arts Credit

Engineering in Wood Technology

Engineering in Wood Technology is a course that covers the rudimentary techniques of woodworking and cabinetmaking in relation to industry. This class provides true differentiated training for the real-world of manufacturing and industry, with student directed studies ranging from areas of programming and operation of CNCs, laser engraving and even 3D printing technologies to rustic woodworking using traditional tools such as Japanese pull saws or hand lathes. This course offers higher-level training in management and student leadership via a complex student-run student-led class structure. Students after leaving this class present skills applicable in all walks of life and will be career or college ready.

**Potential for articulated credits with Michigan Career & Technical Institute*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Visual Performing & Applied Arts Credit

Heating, Ventilation & Air Conditioning

Students in this course are dually enrolled and have the opportunity to earn KVCC college credit in addition to high school credit. This course provides instruction and training in the areas of heating, ventilation, air conditioning and refrigeration as well as the design, installation, and servicing of HVAC/R systems. HVAC prepares students for a technical career upon completion.

**Dual Enrollment at Kalamazoo Valley Community College - 12 College Credits*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Welding

Students in this course are dually enrolled and have the opportunity to earn college credit from Kalamazoo Valley Community College in addition to high school credit. Students must follow all requirements of a dual-enrolled program. Students learn to weld with the most advanced welding processes used today. Content includes the basic safe operation of the ox-fuel welding, cutting and brazing systems. Students also receive training in the basic electric arc welding processes, SMAW (arc), GMAW (mig), and equipment setup, selection and operation. Blueprint reading for welders, welding symbols and basic welder's trade math are included to prepare the student for employment in the welding trade.

**Potential for articulated credits with Baker College, Ferris State University*
**Dual Enrollment at Kalamazoo Valley Community College - 6 College Credits*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Visual Performing & Applied Arts Credit
This is an Early/Middle College eligible program.

HEALTH SCIENCES PATHWAY

Dental Assisting

Students choosing this program will be dually enrolled through Kalamazoo Valley Community College (KVCC) and can earn both high school and college credit for the course. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. Enrollment in the EFE Dental Assisting program begins a preferred relationship with the KVCC Dental Hygiene program that could later impact a student's acceptance into the KVCC program. The course prepares students to become dental assistants. Students will learn the fundamental knowledge and skills of dental anatomy, physiology, terminology, dental materials, chairside assisting, sterilization, radiology, laboratory and clinical procedures. Second semester incorporates an internship held in KVCC's Dental clinic and local dental offices.

**Dual enrollment at Kalamazoo Valley Community College - 9 college credits*
**2nd World Language Credit*
**3rd Science Credit*

Emergency Medical Technician

Students in this class are dually enrolled and have the opportunity to earn both high school and college credit. Basic EMT provides students with instruction in basic emergency medical technology. The EMT course is a study of the topics and skills necessary to make lifesaving interventions and stabilize patients during transport to a medical facility. The course involves lecture and practical skills labs and introduces the clinical component of EMT education, the minimum level of training required for work on a transporting ambulance. Second semester students will complete clinical hours with a local ambulance service and healthcare agencies. Upon successful completion of this course, students are eligible to sit for the national Registry Basic EMT licensing examination.

**Dual enrollment at Kalamazoo Valley Community College - 9 college credits*
**2nd World Language Credit*
**3rd Science Credit*

Fundamentals of Health Science

The Fundamentals of Health Science program is ideal for students interested in exploring healthcare careers. Instruction will provide the skills and knowledge (both academic and technical) necessary to pursue entry level, advanced certification and/or a two-year degree. Special emphasis is on physiology, anatomy, medical terminology, patient assessment/vital signs, infection control, medical ethics, job-related safety, CPR, first aid and communication. Students should be dependable, well-motivated, and show a sincere interest in health care.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*

Health Science

This course introduces the student to health care, with an emphasis on core skills and knowledge applicable to many professional health care disciplines. The curriculum integrates anatomy and physiology, medical terminology, and basic care skills through practical applications found in the health care setting. Students should enjoy working at a fast pace and be considering a healthcare career requiring a minimum of four years of post-secondary education.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*

Professional Health Science

Professional Health Science provides advanced training and experience in the healthcare field. The course includes internship experiences and enrollment in advanced skill mini courses such as phlebotomy, electrocardiography, patient care assistance, and exercise science/sports medicine. Students successfully completing CPR/AED and medical terminology instruction may receive articulated college credit. This second-year course represents the most advanced level of study in the health science program. Students applying to the program must meet specific achievement and performance prerequisites within either Health Science or Fundamentals of Health Science before gaining admission.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
Professional Health Science

HUMAN SERVICES PATHWAY

Cosmetology/Barbering

This is a state-certified program of instruction designed to prepare students to become a licensed professional cosmetologist or barber. Michigan's cosmetology course includes 1,500 clock hours (barbering includes 2,000) of mandatory attendance. In order to complete this requirement, students must be committed to attending the program during an extended day all through their junior and senior years and the summer that falls between. Students not meeting this requirement during their EFE enrollment will need to complete the program at their own expense. Upon successful completion of this prerequisite, students will be prepared to take their Michigan State Board Exam.

**Cosmetology Licensure available*
**Potential for articulated credits with Ferris State University*
**2nd World Language Credit*
**3rd Science Credit*
**Visual Performing & Applied Arts Credit*

Law Enforcement

Through a partnership between KVCC, Kalamazoo RESA and Kalamazoo Department of Public Safety (KDPS), this program offers a very unique, non-traditional opportunity to high school juniors and seniors. EFE's Law Enforcement program is taught by a Public Safety Officer (PSO) and includes several guest speakers from throughout the criminal justice profession.

**Partnered with Kalamazoo Department of Public Safety.*
**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*

Law Enforcement I

Law Enforcement I introduces students to the many different careers available within the field. The program emphasizes the knowledge, skills, and ethics needed to be a successful police/fire academy recruit. Areas of study include criminal law, patrol procedures, fire ground operations, first aid/CPR/AED certifications, defensive tactics, crime scene investigation, and oral & written communication skills. The program follows MCOLES* and police academy standards, as well as current college curriculum.

**Partnered with Kalamazoo Department of Public Safety.*
**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*

Law Enforcement II

Law Enforcement II deepens students' understanding of criminal procedures and improves their written and oral communication skills. Eligible students will intern with local public safety agencies during second semester, applying the knowledge, skills, and ethics learned to real world situations.

**Partnered with Kalamazoo Department of Public Safety.*
**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*

Teacher Academy

The Teacher Academy is designed to introduce students to various careers in the Education and Training Career Cluster. Students will gain yearlong hands-on experience working in a pre-kindergarten, elementary or middle school classroom four days per week. In addition, students will learn the necessary background knowledge of child development and principles of effective teaching through a hybrid program of learning which includes weekly online learning, class meetings, extended research projects, field trips and interviews. Students work under the joint direction of an EFE instructor and a master teacher in their area of interest as they learn to plan and direct instruction for individuals and groups, develop materials, assist with record keeping and complete other responsibilities of teachers and other school personnel. Discover the rewards and joys of teaching!

Students may take this course for one or two years

**Potential for articulated credits with Central Michigan University*
**2nd World Language Credit*
**3rd Science Credit*
**Visual Performing & Applied Arts Credit*

NATURAL/AGRI-SCIENCE PATHWAY

Animal Science

Animal Science is an introduction to the basic care and management of companion animals including cats, dogs, pocket pets and exotic animals. This course also focuses on the production of animals such as horses, sheep, goats, cattle and pigs; for enjoyment or for food and fiber products. Topics include the anatomy, health, reproduction and nutritional requirements of animals. Students gain a foundation to better care for their own animals, raise animals for their personal use or for pursuing careers in the veterinary, animal science, food/fiber or agribusiness fields. Students participate in job shadowing experiences, take part in field trips and learn from guest speakers. This is a laboratory-based class and involves hands-on use of animal equipment and animal dissections.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*

Conservation Biology

This program introduces students to the exciting careers in Natural Resource Conservation and Wildlife Biology. This laboratory/field-based course involves hands-on learning of ecological science, animal and plant studies (i.e. behavior, identification), job shadowing and field trips. This course will have special emphasis on skills and technology used in this profession. Students will have direct contact with natural resource conservationists and wildlife biologists in this field of study. They will attain the skills necessary to obtain employment in various careers in Natural Resource Conservation and Wildlife Biology.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*

Veterinary Science

During the first semester, students will focus on anatomy, medical terminology, hematology, animal breeds, animal health and care, restraint and handling, veterinary lab procedures and parasitology. The second semester will combine continued classroom instruction on specific skills with field work in area veterinary clinics. This program will introduce students to and help prepare students for various jobs in the field of veterinary medicine.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*

Kalamazoo RESA Education for Employment
2018-2019 Course Descriptions

WORKBASED LEARNING

Cooperative Education (Co-Op)

Cooperative Education is an opportunity for students to "earn while they learn." Co-op is a method of instruction, through written cooperative arrangements between school and employers, providing students with an opportunity to extend their Career/Technical Education preparation beyond the classroom.

Students who have completed at least 50% of an Education for Employment class can gain valuable work experience, while earning both money and high school credit. It's a great opportunity to increase awareness of the broad spectrum of occupations in an area of interest, and practice teamwork in the real working world while developing positive work attitudes and habits.

Participating students shall:

- Be employed in a coordinator-approved work setting,
- Work 10-15 hours per week in class-related, legal employment,
- Receive release time from school, school credit, on-the-job training, and pay, and
- Will be evaluated every marking period by his/her employer.

Prerequisite: EFE/CTE related class. Successful completion of 50% and continued concurrent enrollment or EFE/CTE completer status.

NOTE: Students are not to be officially enrolled in co-op until the Co-op Coordinator has approved their application and job site. Additionally, employment is subject to forces outside of the control of the school district, therefore, employment cannot be guaranteed. For these reasons, it is recommended that students maintain a full schedule of classes until all conditions are met.

Registered Apprenticeship

Employers sponsor students through the Federal Bureau of Apprenticeship Training for a skilled trade. During the apprenticeship period (two to four years, depending upon the occupation), the student combines on-the-job training at the company with related classroom instruction at school. Upon high school graduation, courses are continued at a post-secondary institution. While in this apprenticeship, the student will:

- Be employed in a coordinator-approved work setting,
- Work 10-15 hours per week in class-related, legal employment,
- Receive release time from school, school credit, on-the-job training, and pay while earning a journey person's card, and
- Will be evaluated every marking period by his/her employer.

Theatre Technology Internship

Students will work alongside theatre professionals in the areas of scenic construction, lighting/sound/special effects design, costume design, properties design, scenic painting, stage management, and box office management. The course explores all aspects of technical theatre. A once-a-week seminar enhances studies. 2:30-5:00 p.m. extended day.
**Taught at Kalamazoo Civic Theatre*

* 3rd Science Credit – Completion of any EFE state-approved CTE program (regardless of content)		
* 2nd World Language Credit – Completion of any EFE state-approved CTE program (for 2016-2020 graduates only)		
Arts and Communications Pathway	**Site**	**Merit Credit**
Art and Design Career Skills	Kalamazoo Central High School	Visual Performing Arts/Applied Arts 4th Related Math
Digital Video Production	Public Media Network/Epic Center	Visual Performing Arts/Applied Arts
Radio Broadcasting	Public Media Network/Epic Center	Visual Performing Arts/Applied Arts
Business, Management, Marketing and Technology Pathway	**Site**	**Merit Credit**
Accounting/Finance	Climax-Scotts, Galesburg-Augusta, Gull Lake, Kalamazoo Central, Loy Norrix, Parchment, Portage Central, Portage Northern, Schoolcraft, Vicksburg	4th Related Math
Banking & Finance	Galesburg-Augusta High School	4th Related Math
Business Administration, Management & Operations (Course names vary according to school districts)	Climax-Scotts, Galesburg-Augusta, Gull Lake, Kalamazoo Central, Loy Norrix, Parchment, Portage Central, Portage Northern, Schoolcraft, Vicksburg	Visual Performing Arts/Applied Arts 4th Related Math Online Requirement (varies by district)
Computer Science/Software Engineering	Gull Lake High School	See MMC credits at the top of page
Computer Technology	Loy Norrix High School	4th Related Math
Culinary Arts	KPS Community Ed Center	Visual Performing Arts/Applied Arts 4th Related Math
Marketing/Entrepreneurship	Galesburg-Augusta, Gull Lake, Kalamazoo Central, Loy Norrix, Parchment, Portage Central, Portage Northern	Visual Performing Arts/Applied Arts 4th Related Math
Web Design/Graphics	Gull Lake High School	Visual Performing Arts/Applied Arts
Engineering, Manufacturing, Industrial Technology Pathway	**Site**	**Merit Credit**
Automotive Technology	Comstock HS, Loy Norrix HS	4th Related Math
Aviation Technology	Kalamazoo Air Zoo	4th Related Math
Computerized Manufacturing	Vicksburg High School	Visual Performing Arts/Applied Arts 4th Related Math
Construction Trades	Loy Norrix High School and construction site	Visual Performing Arts/Applied Arts 4th Related Math

Drafting Technology/Architecture & Engineering	Kalamazoo Central High School	Visual Performing Arts/Applied Arts 4th Related Math
Electrical Technology	Kalamazoo Valley Community College	4th Related Math
Electronics & Robotics	Kalamazoo Central High School	Visual Performing Arts/Applied Arts 4th Related Math
Engineering Design/Principles of Engineering/Engineering Design & Development	Vicksburg High School	Visual Performing Arts/Applied Arts 4th Related Math
Engineering in Wood Technology	Portage Northern High School	Visual Performing Arts/Applied Arts 4th Related Math
Heating, Ventilation & Air Conditioning	Kalamazoo Valley Community College	4th Related Math
Welding	Kalamazoo Valley Community College	Visual Performing Arts/Applied Arts 4th Related Math
Health Sciences Pathway	**Site**	**Merit Credit**
Dental Assisting	Kalamazoo Valley Community College	See MMC credits at the top of page
Emergency Medical Technician (EMT)	Kalamazoo Valley Community College	See MMC credits at the top of page
Fundamentals of Health Science	Kalamazoo Valley Community College	See MMC credits at the top of page
Health Science	Kalamazoo Valley Community College	See MMC credits at the top of page
Human Services Pathway	**Site**	**Merit Credit**
Cosmetology/Barbering	West MI College of Barbering & Beauty	Visual Performing Arts/Applied Arts
Law Enforcement	Kalamazoo Valley Community College	See MMC credits at the top of page
Teacher Academy	Gull Lake HS, Loy Norrix HS, Portage Northern HS	Visual Performing Arts/Applied Arts
Natural Sciences & Agriscience Pathway	**Site**	**Merit Credit**
Animal Science	Vicksburg High School	2nd Science
Animal Technology	Vicksburg High School	2nd Science
Conservation Biology	Kalamazoo Nature Center (Heronwood Field Station)	2nd Science
Horticulture	Vicksburg High School	2nd Science
Veterinary Science	Vicksburg High School	2nd Science
Wildlife & Natural Resources	Vicksburg High School	2nd Science

Last Revised: November 14, 2017

Dual Enrollment Program

The Dual Enrollment Program is offered only to juniors and seniors who are interested in enrolling in classes at a local junior college, university, or approved vocational school. Students may receive one-half (.5) elective credit per semester upon successful completion of a 1 or 2 credit hour course and upon receipt of earned credit. Students may receive one (1.0) credit per semester upon successful completion of a 3 or 4 credit hour course and upon receipt of earned credit.

Requirements

1. The junior or senior must have taken the SAT or ACCUPLACER test and have passed the section that the student is dual enrolling.
2. Permission of parent or guardian for participation.
3. Completed application form and approval for participation through the application process.
4. **Transportation to and from the class location is the responsibility of the student.**
5. Classes taken will not duplicate any course offered by Climax-Scotts High School.
6. Approval of classes taken from the Principal.

Evaluation

Evaluation will be the responsibility of the class instructor.

Credit

Credit will be granted upon successful completion of semester's work.

Note

Participation in the Dual Enrollment Program may be denied if pupil accounting procedures are changed by the State of Michigan.

Kalamazoo Area Math and Science Center

Students who are eighth (8th) graders may apply to attend KAMSC during high school. KAMSC sends an informational letter to all 8th graders in the fall. This letter explains the application procedures and the testing required for application. The students are notified in the spring if they are accepted.

Students who are interested in applying for their 10th through 12th Grade years need to see the counselor for an application. The time to apply is during February. Vacancies are available only if students from our school or other schools decide not to continue in the program.

Special Education

Special Education Graduation Requirements – A certified Special Education student following a regular education curriculum must complete the appropriate subjects and credits as specified under the general education requirements, unless a team comprised of the parent, special education teacher, and administration has established a Personal Curriculum.

Testing Out

Legislation requires that we consider alternatives to earning high school credit. The code requires an opportunity for any high school student to "test out" of any course. The testing out option does not include those courses students are attending. Students need to exhibit mastery of the subject matter by obtaining a grade no less than C+ on a final exam. The student may be required to demonstrate mastery through basic assessment used in the course, which may consist of a portfolio, performance, paper, project, or presentation. Credit earned is to be earned based on a "pass" grade and will not be included in a computation of grade point average. Credit will be counted towards fulfillment of a requirement of a subject area course, and will be counted towards fulfillment of a requirement as to course sequence. Students may not receive credit thereafter for a lower course in a course sequence concerning the same subject area.

The testing window is the week prior to the beginning of a new semester. Testing out is on a semester-by-semester basis. Students must have taken 1st semester or tested successfully out of 1st semester to test out of 2nd semester. Arrangements for administering the exam must be made through the Counseling Department upon receiving prior approval from the Principal. It is the student's responsibility to get all necessary study materials from the teacher.

Students are now allowed to try to test out of a course that they previously failed. The exam must be taken no earlier than one semester after the course was failed. The student must pass the exam with a minimum "C+" to retrieve course credit. Students will be allowed to test out of a course during exam week of second semester for courses failed first semester prior to summer school. The students must sign up with the counselor prior to the testing window and are responsible for getting the necessary study material from the teacher(s).

Education Alternatives

1. Edgenuity (E2020) courses are offered on campus to be used for credit recovery. School officials will arrange for the scheduling of the courses. The classes are taken for credit only. Edgenuity also has courses that we do not offer. These courses are taken for a letter grade.

2. Learning Lab is designed to provide an opportunity for all students to study quietly and receive teacher assistance when needed. A major goal of the Learning Lab is to increase academic success for all students.

3. Post-Secondary (Dual) Enrollment courses are courses taken at local colleges or universities, in addition to their own high school courses. The School Aid Act contains a provision that directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:

- Students must have earned sufficient credits to be in grade 11 or 12.
- Students qualify for state endorsement in the required subject areas of the PSAT test.
- The course(s) the student is seeking reimbursement for is not a vocational, recreational, hobby, P.E., or government course.
- Counselor has completed Tuition Reimbursement Form. Student has indicated that this course is to be taken for high school credit, college credit, or both.

School districts are required to pay the lesser of (a) the actual charge for tuition and fees, or (b) the student's state school aid foundation allowance, adjusted to the proportion of the school year they attend the district.

All courses must have approval prior to registration and must be accepted and meet the graduation and credit requirements of Climax-Scotts High School.

NAME:_____

SCHEDULING SURVEY

Graduation Requirements

English – English 9, English 10, English 11, English 12 or AP English 4.0

Science 3.0

Mathematics 4.0

Social Studies – US History, World Cultures, Social Studies Elective and Government/Economics 4.0

Health/PE 1.0

Computer Applications 1.0

Fine Arts/Applied Arts/Foreign Language 3.0

Electives 3.0

Please choose the seven courses and two alternate courses that you are currently interested in taking during the next school year. Please rank the elective choices.

English _____

Math _____

Science _____

Social Studies _____

1. **Elective** _____
2. **Elective** _____
3. **Elective** _____
4. **Elective** _____
5. **Elective** _____

The counselor will try to accommodate all requests, but does reserve the right to alter schedules once the master schedule has been determined.

Parent Signature: _____ **Date:** _____

REQUIRED CLASSES BY GRADE

9th Grade
English 9
Math Course
US History
Intro to Physics
Health/Physical Education
Focus on Freshmen/Computers

10th Grade
English 10
Math Course
Electives**
Word History
Biology

11th Grade
English 11
Math Course
Electives**
Government/Economics
Science Course

12th Grade
English 12 or AP English
Social Studies Elective
Electives**
Math Course

**When scheduling elective courses, it is recommended that the student try to fulfill the computer application requirement and the fine arts/applied arts/foreign language requirements early in their high school career.

***All students are required to have a complete schedule that fills the 7 hours.