

Kingston Jr. Sr. High School Course Catalog



Kingston High School Graduation Requirements

The State of Michigan's School Code allows local school districts to set their own standards for high school graduation. Kingston Community Schools has adopted the minimum of 25 units of credit necessary for the awarding of a high school diploma. Students attending the Tuscola Technology Center for one full year will need 24 credits. If they attend the TTC for two years, they will need 23 credits. Of the 25 credits, the following course requirements must be successfully completed by the class of 2019 and all subsequent classes.

An equivalent of 4 credits of Language Arts

An equivalent of 3 credits of Social Studies

An equivalent of 1 credit of Physical Education/Health

An equivalent of 1 credit of Fine or Performing Arts

An equivalent of 4 credits of Math

An equivalent of 3 credits of Science

An equivalent of 1 credit of Computers (On-Line experience)

An equivalent of 1 credit of World Language, Students satisfy the state "2 year" requirement by earning a ½ credit for each semester of JH Spanish.

Scheduling Options

A) Traditional Track

9th Grade:

Algebra

English 9

Biology or

US History

Spanish I

PE/Health

Fine Art Course

10th Grade:

Algebra 2

English 10

Biology

World History

3 Electives

11th Grade:

Geometry

English 11

Chemistry

4 Electives or TTC

12th Grade:

PreCalc/FinMath/TTC Equiv

English 12

Govt/Econ

4 Electives or TTC

A traditional track for 9th-12th grade is the most typical route. It is a combination of both rigorous core classes and a wide range of electives preparing students for both a career and/or college. Electives Include: Physics, Human Biology, Psychology, Robotics, Cinema and Lit, History through Films, Speech and Performance, Current Events, Art 1, Art 2, Spanish 2 or 3, Weights and Speed Training, - and numerous On-Line Courses through Michigan Virtual High School (MVHS) and/or Dual Enrollment (available with qualifying SAT scores- see chart below) and the Tuscola Technology Center (TTC). Students going to the Tuscola Tech Center (TTC) have numerous courses/career pathways to choose from- most awarding degree's/ certificates. . All of these courses are explained below in the course descriptions.

Advanced College Prep Track

8th Grade:

Algebra

9th Grade:

Algebra 2

English 9

Biology

US History

Spanish I

PE/Health

Fine Art Course

10th Grade:

Geometry

English 10

Chemistry

World History

11th Grade:

Pre-Calc/Statistics

English 11

Physics

Human Biology or MVHS

Dual Enrollment or MVHS

Dual Enrollment or MVHS

Dual Enrollment or MVHS

12th Grade:

AP Calculus or MVHS

English 12

Govt/Econ

Human Biology or MVHS

Dual Enrollment or MVHS

Dual Enrollment or MVHS

Dual Enrollment or MVHS

More on Advanced College Prep Track: Students choosing this track must have qualifying SAT (SAT College Readiness Standards- see chart below) scores along with a teacher/parent/administration recommendation. Students choosing this track have college in mind at an early age and plan on taking as many dual enrollment courses as possible instead of high school elective courses. Students may choose to take a foreign language along with Spanish, through MVHS, like, German, Latin, Mandarin Chinese, or Japanese- however, Spanish must still be taken. Students will leave high school with 5 math credits as he/she will take algebra in 8th grade and receive high school credit for the course. Students may also take 9-12 dual enrollment credits per semester through Delta College or other participating local colleges and/or universities their junior and senior years. Finally, students may also opt to take an AP course On-line through Michigan Virtual High School (MVHS) instead of a traditional course (i.e. AP History instead of US History).

- **9th Grade (Based on 8th grade MSTEP – must be proficient in all areas)**

SAT College Readiness Standards (Math and EBRW)

- **EBRW – Evidence based Reading and Writing**

10th Grade (Based on 9th grade PSAT 9)

Math - 450
EBRW - 410

11th Grade (Based on 10th grade PSAT 10)

Math - 480
EBRW - 430

12th Grade (Based on 11th grade SAT and MSTEP)

Math - 530
EBRW - 480
Science - MSTEP Proficient
Social Studies – MSTEP Proficient

To be considered eligible to take On-Line courses through Michigan Virtual High School, a student has to have SAT College Readiness in Math to take a Math course and SAT College Readiness in EBRW to take any other course. To take dual enrollment courses in 11th or 12th grade, students have to have SAT College Readiness (PSAT 10, SAT, or MSTEP) in the specific area in which they choose to take a college course (i.e. MSTEP Proficiency in science to take a college level Biology course).

English Language Arts Department Course Descriptions

English 9 - KHS Core Class (1 Credit)

This course in English focuses attention on the study of grammar, correct usage, and beginning writing skills. The program includes a challenging reading program that includes Accelerated Reader, vocational building, and writing with particular emphasis on the paragraph and short essay.

English 10 – KHS Core Class (1 Credit)

At the English 10 level, strong emphasis is placed on grammar, agreement, correct usage, and other skills; basics of sentence structure, writing, and beginnings of composition are introduced; literature is incorporated into the class in terms of critical analysis of literary works, discussion of story elements, and work context. Also includes a full-length research paper.

English 11 - KHS Core Class (1 Credit)

Students will develop effective communication and literacy skills through rigorous and relevant units of instruction and engaging learning experiences by focusing on four key dispositions: Inter-Relationships and Self-Reliance, Critical Response and Stance, Transformational Thinking and Leadership Qualities. The goals for ELA 11 are to: Continue to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks, add to the list of various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school with a special focus on British and World literature and ACT success, connect with and respond to texts through transformational thinking, learn to use forward thinking to help make better decisions, to generate new ideas for solving problems, and to find wisdom, build a context for change in their lives and develop realistic plans for the future. Other skills include: ACT prep, ACT vocabulary quizzes, multiple short and formal papers, organized class discussions.

English 12 – KHS Core Class (1 Credit)

Students will develop effective communication and literacy skills through rigorous and relevant units of instruction and engaging learning experiences by focusing on four key dispositions: Inter-Relationships and Self-Reliance, Critical Response and Stance, Transformational Thinking and Leadership Qualities. The goal for English Language Arts 12 is to refine, apply, and extend the solid foundation of knowledge, skills, and strategies developed in English Language Arts 9 through 11, develop a world perspective by analyzing classic and contemporary texts in a variety of genre, including post-colonial literature, synthesize information, ideas, and themes to understand the past, the present, and to think innovatively about the future, and identify and apply their own leadership skills and prepare for responsible action as American citizens in the context of a global world.

Cinema and Literature- KHS 9th-12th Grade Elective Course (1 Credit)

Speech and Performance -

Publishing & Yearbook- KHS 11th-12th Grade Elective Course (1 Credit)

This course provides an introduction to basic journalism skills, including layout, graphics, copy writing, and business and general publication procedures. This class is considered to be an advanced technology course as computers are used in copy writing, layout design, and business management. Students use a variety of publication software and photo editing programs. This class produces the high school yearbook, the athletic programs and the community newspaper.

Journalism- On-Line Course (.5 Credit)- One Semester Class

The basics of journalism, including laws and ethics, freedom of the press and the principles of journalistic writing, are powerful tools. In the early 1970s, two Washington Post reporters uncovered a scandal known as Watergate and eventually a president was forced to resign. In this course, you'll learn how to generate story ideas, conduct an interview and then put it all together as you write both news and sports stories. You'll also be introduced to feature writing and editorials. You'll be part of a team of students who will write articles for the *MVS* online newspaper. You should plan on spending eight to 10 hours online each week to complete the required assignments in this one-semester course.

AP English Literature & Composition (A & B-Full Year) - On-Line Course (1 Credit)

For a year, students participate in the AP Dinner Party in the AP Literature and Composition course. Menu items include reading, analyzing, writing, rewriting and discussing creations by the master chefs, renowned authors. Through close reading of the text of these authors, you'll discover the various ways writers use language to provide meaning and pleasure for their readers. The AP Literature and Composition course requires intensive concentration on composition skills (both yours and the author's) in areas of structure, style, and theme. You'll also analyze authors' narrative techniques, like use of figurative language, imagery, symbolism,

and tone. The AP Literature and Composition dinner party equips students with recipes for success in college, in a career and the AP exam. Textbook: *Sound and Sense: An Introduction to Poetry*. L. Perrine and T. Arp (latest edition). *The Natural*. Bernard Malamud (any edition). Also required (any edition): *Beowulf*, *Frankenstein*, *Wuthering Heights* or *Jane Eyre*, *Grapes of Wrath*, *Hamlet*.

American Literature (A & B Full Year) *On-Line Course* (1 Credit)

In Term 1, students will read and discuss literature from the time of the Puritans up to just before the Civil War in American Literature A. You'll also study the times in which this literature was written, the lives of the authors and the works they created. In Semester two, American Literature 1B, you'll study literature from about 1855 to the present time, from just before the Civil War until the Iraq war. You'll read a variety of authors, the history and philosophy of the times they lived in and what their work means to us today.

World Literature (One Semester Course) *On Line Course* (.5 Credit)

World Literature introduces students to different cultures and time periods in world history and focuses on the literature that came from each culture. Students will read literature from the Ancient World (Greece and Rome), China, Japan, the Middle East, Africa, Europe and contemporary literature from all over the world. By reading these selections students will be able to make connections between world cultures and their own lives.

British Literature 1 (A & B Full Year)- *On-Line Course* (1 Credit)

In the first semester, you will dive into epic tales as you journey from the British Isles to ancient Greece. Discover literary and historical connections as you explore shipwrecks and examine the blues. Read fervent love poetry and depictions of madness — are they one and the same? British Literature features readings from the Anglo-Saxon period to Medieval times, covering various literary genres. In the second semester you will focus on readings from the Anglo-Saxon period to the present, covering various literary genres. This course traces the development of English literature and language through intellectual, historical and social events. Writing activities in the course include narrative, expository, persuasive, informational and descriptive writing that demonstrates research, organization, and drafting strategies. The literature in this course gives students an extensive knowledge of the influence of British writers on today's culture and also teaches the historical background of the periods in history from the Anglo-Saxon and Medieval to contemporary times.

Fine Arts Course Descriptions

Music Education

Concert Band -KHS 9th-12th Grade Elective Course (1 credit)

This class consists of an instrumental ensemble that includes marching, concert, jazz and pep band opportunities. Students will be able to learn different instruments and participate in Solo and Ensemble, District, and State Band Competitions.

Jazz Band- KHS 9th-12th Grade Elective Course (1 Credit)

This class consists of an instrumental ensemble that includes marching, concert, jazz and pep band opportunities. Students will be able to learn different instruments and participate in Solo and Ensemble, District, and State Band Competitions.

Music Appreciation- One Semester Course (.5 Credit) *On-Line Course*

This course introduces students to the elements, instrumentation and historical periods of music. Students will learn the significance of surroundings and time periods and how they both influenced the music of the day. Students will listen to and evaluate several types of music, and will be assessed through projects, presentations, and exams on the knowledge and understanding of music.

Health & Physical Fitness Education

9th Grade PE and Health -KHS Core Class (1 Credit)

This course deals with the basic fundamentals of physical fitness: flexibility, strength, muscular endurance, lifelong physical fitness and wellness, and cardiorepiratory endurance. Students participate in a variety of team and individual sports. The students are evaluated on criterion from the word "Respect," responsibility, effort, self-control, perseverance, exemplary leadership, compassion, and teamwork.

Weights and Speed Training- KHS 9th-12th Grade Class (1 Credit)

The objective of this class is to enable students to become stronger, faster, more flexible, and develop more endurance through the use of a variety of activities. Students will also focus on the areas of life that lead to wellness- healthy eating, beating stress and anxiety, self-control and physical fitness. Students will lift weights and work on their individual speed and agility.

Arts & Technology Education

Art 1- KHS 9th-12th Grade Elective Course (1 Credit)

Three dimensional art is a fine arts course in which students will experience and control a variety of 3-D design media. These mediums may include but are not limited to ceramics, paper mache' and various 3-dimensional sculptures. Students will be required to create preliminary drawings, sketches and written descriptions prior to creating the artwork.

Art 2- KHS 9th-12th Grade Elective Course (1 Credit)

Two dimensional Art is a fine arts course in which students will experience and control a variety of 2-D design media. These mediums may include but are not limited to acrylic paints, watercolor paints, chalk, charcoal, pastels and pencil. Students will be required to create preliminary drawings and sketches prior to creating the artwork. Students will also be involved in the critiquing processes both in written and verbal forms.

Graphic and Mixed Media Arts - KHS 9th-12th Grade Elective Course (1 Credit)

Mixed Media Art is a fine arts course in which students will experience and control a variety of media- a mixture of 3D and 2D concepts, incorporated with the use of technology. Students will construct claymations, sculpture, 2D design, take digital photographs, compile movies, use movie maker and Microsoft Power Point.

Graphic Arts & Communications- TTC Course (3 Credits)

The printing industry is growing fast and needs thousands of new workers; from design to the printed product, the printing industry offers an exciting and colorful career. This program is designed for students interested in the graphics and printing industry in fields such as computer graphics, printing, photography, graphic design, screen printing and illustration. Other projects include designing calendars, ad campaign signs and more. Print Ed certification is offered and college credit may be earned. Student club: Michigan Industrial Technology Education Society.

American Film Study- On Line Course- (.5 Credit) One Semester Course

Semester 1: American Film Survey is an exciting journey through what is arguably this country's most influential and beloved art form: cinema. Among the classic film genres examined are film noir, western, comedy, military, epic, psychological drama and independent film. Through viewing, theory and written critique, the student follows the evolution of cinema within the context of our culture and history. Prominent directors and actors both contemporary and past are also highlighted. The culmination of this course prepares the student for more advanced film studies, promotes the development of written expression and analysis and encourages critical thinking with regard to the relationship between popular art and society.

Film Study- Directors of the Golden Age- On Line Course- (.5 Credit) One Semester Course

The master of suspense — Alfred Hitchcock — and the master of elegance — George Cukor — are among the directors who influenced the cinematic art form in the United States during the Golden Age of Hollywood (1930s-50s). Directors of the Golden Age, along with the course American Film Survey (AFS) is intended for high school students. This course delves deep into the American film tradition by studying such iconic directors as Alfred Hitchcock (*The Birds*), Frank Capra (*It's a Wonderful Life*), George Cukor (*My Fair Lady*), Howard Hawks (*The Big Sleep*) and Billy Wilder (*Sunset Boulevard*).

Digital Photography- On-Line Course (.5 Credit) One Semester Course

In the digital photography and graphic design lessons, students begin by learning general photographic concepts. Then composition skills are added to photographs and image-editing techniques are practiced. Students learn how to use layers, crop images, color and lighting, concepts, hue and saturation, and exposures and special effects. Graphic design, artistic elements, and software skills are taught while producing graphic images. The concept of design as a manner of visual communication is carried throughout. Students build a portfolio of work and explore the fields of photography, graphic arts, advertising and illustration.

Art History- On-Line Course (.5 Credit) One Semester Course

The course is designed to introduce students to the global world of art by providing historical, social, geographical, political, and religious context so that they may have a better understanding of art and architecture through the ages. The course is organized by chronological, historical order as well as by world regions. Topics include early Medieval Art and Romanesque Art; Art in the 12th, 13th and 14th Centuries; 15th Century Art in Europe; 16th Century Art in Italy - The Master Artists; High Renaissance and Baroque Art; World Art that includes the Art of Asia and Art of Africa, the Americas, and the Pacific Cultures; 18th and 19th Century Art in Europe and the Americas; and concludes with a modern art unit that covers Modern Art in Europe, Modern Art in the Americas, and new mediums such as Photography and Pop Art. The course contains formative and summative assessments and concludes with a cumulative exam.

HS Computers – KHS Elective Class (1 Credit)

Microsoft office is a one-year course designed to cover all the area of Microsoft Office 2010. These areas include Microsoft Word, Excel, PowerPoint, Access, Publisher, and Front Page. Students will create word processing documents, make professional-looking presentations, create databases, and design and create a web page.

Web Design Basics HTML- On-Line Course (.5 Credit) One Semester Course

This course introduces the students to basic web page design techniques and how to create web pages that are appropriate for the perspective audiences. Through the use of HTML, the students learn to alter text and background colors, change text and image page alignment, create internal and external hyperlinks, and embed video and audio files into their web pages.

Basic Software Applications- On-Line Course (.5 Credit) One Semester Course

Application software or applications are what most people think of when they think of software. In Basic Software Applications, students will learn how to use presentation software, spreadsheets and simple web page creation while improving their word processing skills. Students will experience cross-curriculum activities that will demonstrate the power of technology for completing projects integrating such subjects as language arts, social studies and science.

Computer Technology Management- TTC Course (3 Credits)

Students have the opportunity to become certified specialists in several computer and networking fields. Students focus on one of four areas: Computer Maintenance & Troubleshooting, Web Design, Programming and Network Administration. Skills taught are installing cable, configuring routers and switches, network administration, and network and computer diagnostic. Students who will learn on software such as Microsoft Network Administration, Certified Internet Webmaster, MOS, Novell Administration and A+. Students can also concentrate on web application, which involves: Visual Basic, database management, web graphic design, Flash, and Dreamweaver. Certifications offered: Microsoft Office Specialist, Word, Excel, PowerPoint, Access, Outlook, A+, Network+, Novell – Certified Network Administrator, Certified Internet Webmaster, Linux+. College credits may be earned. Student club: Business Professionals of America.

Business & Industrial Arts Education

Pre-Engineering- TTC Course (3 Credits)

The engineering field involves many fields of study, from Aerospace to Transportation Engineering. In many of these fields of study the use of Drafting/CAD, Electricity and Electronics, Welding and Fabrication and Precision Machining knowledge is an integral part of the field. TTC instructors, industry representatives and college engineering students have collaborated to create a new pre-engineering curriculum guide.

The curriculum is designed to help students understand concepts/principles involved in many engineering fields. This is done through a variety of experiences and lab activities culminating in a semester long project for competition. The goal of this program is to provide students with broad based knowledge and skills necessary to excel at the university level in an engineering program of study.

Automotive Body Repair- TTC Course (3 Credits)

The Auto Body class helps students to develop the hands-on skills necessary to repair damaged vehicles. The Technology Center has a large auto body repair shop that has all of the tools and equipment found in most independent body shops and dealerships. Students will learn painting and refinishing. Students learn to properly use tools and equipment needed for each job and to develop safe working practices and habits. Additional areas of instruction include: shop safety, metal finishing, welding, panel replacement and estimating. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan, ASE and I-CAR. College credits may be earned. Student Club: Skills USA.

Automotive Technology- TTC Course (3Credits)

The Automotive Technology Program at TTC is intended to prepare students to be able to take and pass the National Institute Auto Service Excellence Test and to enter the field of work as an advanced Apprentice Technician. Due to the technical nature of the field of Automotive Technology and the amount of knowledge required to enter the field, this is considered a two-year program. Six technical areas of certification can be covered. Upon completion of the first year, a student should be ready to take at least two or more of the certification tests. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan. College credits may be earned. Student Club: Skills USA

Construction Technology- *TTC Course (3 Credits)*

During the first year, students learn the basic skills of residential home construction. Students can apply their skills while building a residential home on campus. Exciting projects are based on units in carpentry, masonry and electrical wiring. Field trips and tours help students gain current information about building trends and methods. Students have the opportunity to join a student youth club that provides opportunities to further develop career skills, leadership, teamwork, and personal skills needed by employers. This program offers SkyTrak/Rough Terrain Forklifts certification and college credits may be earned. Student club: Michigan Industrial Technology Education Society & Skills USA.

Drafting & CAD- *TTC Course (3 Credits)*

Drafters prepare detailed technical drawings that are necessary to produce a project or product - - from a child's toy to components for the space shuttle. Mechanical drafters draw detailed working diagrams of machinery and mechanical devices, including dimensions, tolerances, finishes, and other engineering information. Students are taught using demonstration, technical hands-on learning experiences, group activities, fieldtrips and lectures. College credits may be earned. Student club: Michigan Industrial Technology Education Society & Skills.

Electricity & Electronics- *TTC Course (3 Credits)*

A successful Electronic Technician is a highly skilled builder and troubleshooter of electronic equipment. The Electronics program provides the students with the knowledge and hands-on skills required in the workplace. Students will cover design, repair, development, manufacturing, and testing of electrical and electronic components. Products and systems for commercial, industrial, medical, military, and scientific purposes are also explored. Students in this program are trained in the following areas: basic electricity, computers, solid-state and digital electronics, electronic communication, robotics and automation, and consumer electronics repair. College credits may be earned. Student club: Michigan Industrial Technology Education Society.

Power Technology- *TTC Course (3 Credits)*

Discover the world of mechanical repair. With a background in Power Technology, you may choose a career in engine repair, power transmission, hydraulics, charging/starting systems, welding fabrication, parts or sales. You will work on preventive maintenance, brake systems, electrical systems, engines, transmissions, and differentials. Students will use a variety of tools and test equipment in their daily routine. This highly technical and specialized program will train you for many new job opportunities. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan. College credits may be earned. Student Club: Skills USA

Welding & Fabrication- *TTC Course (3 Credits)*

Welding is a leader of today's high tech approach to manufacturing. Student will prepare for a variety of jobs in the metal fabrication industry. Along with training in various types of welding and cutting processes, the student receives instruction in the use of industrial equipment. Computer-controlled processes, allow plastic welding, wire feeders, plasma, cutting, and welding torches to be controlled by the operator at a keyboard, or a computer in the building or the next state. American Welding Society and I-CAR certification may be earned as well as college credit. Student club: Michigan Industrial Technology Education Society & Skills USA.

Machine/Tool & Die- *TTC Course (3 Credits)*

Our modern civilization depends on machine tool technology. Learn to operate machines that cut, bore, mill, and abrade such materials as metal, wood and plastics. Learn machine operation and working to a close tolerance in a field that has an abundance of job openings. The employment outlook for the serious student is excellent. Machinists use machine tools such as lathes, drill presses, and milling machines to produce precision machine parts. Students learn how to set up and operate various metalworking machines and construct projects from engineering drawings. Computer Numerical Control (CNC) will be covered during the second year of training. Students are also trained in CAD (Computer Aided Drafting).

Administrative Management Support- *TTC Course (3 Credits)*

Students are offered advanced office technology in the career fields of administrative office professional, medical and legal office specialist. Students have the opportunity to gain competencies using software to learn voice recognition, desktop publishing, graphics and multimedia techniques commonly used in business. Even if a student is not sure he or she wants to work directly in the field of business, the Administrative Management Support curriculum can benefit individuals in any career. Microsoft Office Specialist,

Word, Excel, PowerPoint, Access & Outlook certifications are offered and college credit may be earned. Student club: Business Professionals of America.

Advertising Design- TTC Course (3 Credits)

Prepare for an exciting career in Advertising Design, where you will develop creative approaches to promote products, services, and ideas for commercial use. The printing industry is growing fast and needs thousands of new workers; from design to the advertised product, the advertising industry offers an exciting and colorful career. This program is designed for students interested in careers in the advertising and graphics industry such as computer graphics, printing, digital photography, advertising design, and illustration. Emphasis is geared toward hands-on learning using state-of-the-art equipment to give each student the best possible training and job skills. College credit may be earned. Student club: Michigan Industrial Technology Education Society.

Placement Services/BIST- TTC Course (3 Credits)

Tuscola Technology Center is able to provide job placement assistance to all students, through either your program instructor or Placement Office. TTC job placement assistance is designed to help you find full-time, part-time or temporary jobs, as well as, work-based experience for credit with the following programs: Apprenticeships, Co-Op, Work Experience or Job Shadowing. BIST (Business & Industry Site Training) is offered to students who cannot obtain this type of curriculum/training at TTC or at their home school. The training is offered at the site of an employer and the experience is for a full year. The students are not paid; however, they receive school credit. The program must operate under a state approved CIP code. BIST employers: Brass Shutter, The Portrait Gallery, WKQZ, WIDL, Nancarrow Taxidermy Studio, Miss Erin's Dance Studio, Maple Grove Vet Clinic, Larsen Veterinary Clinic, Millington Veterinary Clinic, Hills & Dales Center for Rehab (MARC), Dr. James Thomas, D.D.S., Dr. Joseph Vella, D.D.S., Dr. Kenneth Merckel, D.D.S., Cass City Middle School, Kingston Community Schools, and Highland Pines School. Students in the past at Kingston have worked in the office, custodial, librarian and kitchen staff as well as student teaching in the elementary and middle school.

Cosmetology- TTC Course (3 Credits)

Learn the science of beautifying and improving the complexion, skin, hair, and nails in the Cosmetology Program. The classes are held at Howard's Beauty Academy in Caro. Here the students undergo 350 hours of class work and laboratory studying, and then have 1,150 hours of floor work guided by the experience of professional instructors. The students use technical, business, and people skills routinely throughout the day. This course is designed to prepare students for the state exam and licensing process. (NOTE: This course requires full-time attendance during the summer between the junior and senior year.) Certification is offered through the State of Michigan. Student club: Skills USA.

Early Childhood Professions- TTC Course (3 Credits)

Students learn how to create a safe, comfortable environment in which children can grow and learn. This program is unique in that students are able to learn the skills for the care of young children and apply them in the Technology Center's licensed preschool. Children aged 3-5 attend the preschool. Activities planned by the students provide physical, cognitive, social, and emotional development for the children. In addition, students who demonstrate good classroom progress, have excellent attendance and work habits may have opportunities to work in additional facilities. Some of these include day care centers, kindergartens, preschools, Head Start classrooms, and early childhood classrooms or programs for developmentally disabled children. First Aid & CPR certification is offered and college credits may be earned.

Hospitality & Food Services Management- TTC Course (3 Credits)

Teaches the basics of short order cooking and quantity cooking with a focus on teamwork, leadership skills, customer service and exceeding guest expectations. Students train in a modern commercial restaurant and bakery, moving through the different areas of instruction. Hospitality service continues to be one of the largest industries offering employment at many income levels depending on ability, experience and education. The Cleaver Café Restaurant, which is located in the Technology Center, is open to the public and offers table and conference/ banquet services. Students receive actual work experience with the public through operation of the restaurant. Students have the opportunity to work as part of the team in the *Cleaver Café* Restaurant. Serve Safe and Pro-Start Certifications are offered and college credit may be earned.

Marketing & Business Management- TTC Course (3 Credits)

The main objective of the Marketing & Business Management program is to develop competent workers in and for the major occupational areas within marketing. Another goal is to build an understanding of the wide range of social and economic responsibilities, including the right to engage in marketing in a free-enterprise system. This program is concerned with marketing, sales, distribution, merchandising, management, and entrepreneurship. Assessment of Skills and Knowledge for Business certification is offered and college credits may be earned. Student club: DECA.

Business Ethics- On-Line Course (.5 Credit) One Semester Course

Think about the last difficult decision you made. Was there more than one direction to take? Businesses, as well as individuals, are faced with making the right decisions every day. Business Ethics explores and identifies ethical behavior and what goes into making the right decision. Students will establish a written code of ethics that can serve as framework for both business and individual decision making. Ethical decision making is a skill that will serve students in every aspect of your life.

Entrepreneur Business Management - *On-Line Course* (.5 Credit) One Semester Course

Entrepreneur Business Management is a business course for high school students to familiarize themselves with a day in the life of a business owner. In this course, students will become familiar with introductory concepts of decision making and managing a business, fair hiring practices and gain decision-making skills. Students will also gain an understanding of what entrepreneurs need know to survive the day-to-day operations of their business.

Entrepreneur Business Planning- *On-Line Course* (.5 Credit) One Semester Course

Ever wonder what it takes to own your own business, be your own boss and write your own paycheck? Entrepreneurship helps students examine their readiness and passion for such an undertaking. Students will develop an innovative idea, conduct a feasibility analysis, identify their primary customer, and write a business plan. They will also learn how to network with other professionals to launch their own business. The final step will be developing their strategic plan for the future to help bring their entrepreneurial dreams to reality.

World Languages

Spanish I -- *KHS Core Class* (1 Credit)

Created to be a two-semester course for high schools students that allows for an individualized development of the Spanish language through the study of the core grammatical structures and the vocabulary necessary for elementary communication. Spanish I also provides students with an introduction into the traditions and customs of Spanish-speaking people across the world.

Spanish II – *KHS Elective* (1 Credit)

A two-semester course designed for students who have successfully completed Spanish I. High frequency, thematic, and contextualized vocabulary is presented in each unit. Grammar is presented through structured practice and takes the student through open ended communication. Homework Help accompanies the practice to help students achieve mastery of the concepts. Real-life conversation activities are presented. Activities also encourage open communication to enable students to utilize the Spanish they have acquired. Cultural readings in the target language are presented in both text and audio format so that students are exposed to the Hispanic culture from around the world.

Spanish III—*KHS 11th-12th Grade Elective Class* (1 Credit)

Intermediate Spanish students who have a strong base of vocabulary, speaking and listening skills will reach a new level of mastery and fluency in this course. This course teaches advanced grammar and vocabulary and emphasizes correct accents and comprehension of “real world” native speech. The high energy excitement of the content, the challenging games and the wide variety of compelling stories contained in this course combine to make advanced learning as exciting as ever. Our unique error recognition technology helps students to eliminate common mistakes from their speaking and writing.

AP Spanish (A & B-Full Year)— *On-Line Course* (1 Credit)

A)- This is the first term of a year-long course. AP Spanish Language students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture, or literature.

B) This is the second term of a one-year course. AP Spanish Language students practice perfecting their Spanish speaking, listening, reading and writing skills. They study vocabulary, grammar and cultural aspects of the language, and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP Exam and for further study of Spanish language, culture or literature.

French 1 (A & B- Full Year)— *On-Line Course* (1 Credit)

French 1 has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes and exams. Learning activities in each unit are focused upon a specific theme.

French 2 (A & B Full Year)— *On-Line Course* (1 Credit)

French 2 has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes and exams. Learning activities in each unit are focused upon a specific theme.

French 3 (A & B Full Year)— *On-Line Course* (1 Credit)

This course is a continuation of the beginning level courses that will help the student continue learning the French language. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (Feelings, Transportation, Work, Countries the Future), students learn to express themselves using an ever increasing vocabulary, present, past, future and conditional-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French speaking world and their culture, people, geographical locations and histories.

French 4 (A & B Full Year)— *On-Line Course* (1 Credit)

This course is a continuation of the beginning level courses that will help the student continue learning the French language. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (People, Achievements, Desires, Activities and Celebrations), students learn to express themselves using an ever increasing vocabulary, present, past, future and conditional-tense verbs, articles, adjectives and increasingly complex grammatical structures. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the French speaking world and their culture, people, geographical locations and histories.

AP French (A & B- Year Long)— *On-Line Course* (1 Credit)

In Term 1, AP French Language students apply their French grammar and vocabulary knowledge and their listening, reading, speaking and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write complex compositions, and comprehend native speakers. The equivalent of a third-year college-level language course, AP French Language prepares students for the AP Exam and for further study of French language, culture and literature.

In Term 2, AP French Language students apply their French grammar and vocabulary knowledge and their listening, reading, speaking and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write complex compositions, and comprehend native speakers. The equivalent of a third-year college-level language course, AP French Language prepares students for the AP Exam and for further study of French language, culture and literature.

Mandarin Chinese 1A— *On-Line Course* (.5 Credit) One Semester Course

Chinese 1A is designed for students who are absolute beginners of Chinese. It consists of the student studying both the multimedia e-textbook and the daily learning tasks independently, and the student attending weekly synchronous virtual meetings to elaborate on and clarify their independent learning experience. Thus the course capitalizes on the advantages of both the technology and human instructors for language learning. By the end of this course, students will obtain basic communication competency and be able to conduct conversations or converse fluently on topics such as exchanging personal information, exchanging family information, making travel arrangements, ordering foods in restaurants, discussing class schedules, making phone calls, reading maps and reserving rooms in a hotel, etc. This course is designed for students who have completed Chinese 1A or have equivalent proficiency in Chinese.

Mandarin Chinese 1B— *On-Line Course* (.5 Credit) One Semester Course

Chinese 1 B will use the rich experiences of a native Chinese instructor to help students traverse the Great Wall as they progress through the course using the highly interactive Chengo Chinese multimedia learning system developed on an Olympic theme. Weekly synchronous group learning activity is emphasized in this course to enhance real time student-instructor and student-student interaction. Students will obtain basic communication competency, including such topics as shopping, traveling, hobbies, studying, asking direction, food.

Mandarin Chinese 2A— *On-Line Course* (.5 Credit) One Semester Course

This course is designed for students who have completed Chinese 1A and 1B, or have equivalent proficiency in Chinese. Chinese 2A will be taught by a native Chinese instructor who has rich experiences in teaching Chinese as a foreign language. Weekly synchronous group learning activity is emphasized in this course to enhance real time student-instructor and student-student interaction. Students will traverse the Great Wall as they progress through the course using the highly interactive Chengo Chinese multimedia learning system developed on Olympic theme. Students will obtain basic communication competency in this course including such topics as eating, celebrating holidays in China, language competition, bus transportation and money exchange.

Mandarin Chinese 2B— *On-Line Course (.5 Credit) One Semester Course*

This course is designed for students who have completed Chinese 1A, 1B, and 2A and or have acquired the equivalent level of Chinese. Chinese 2B will be taught by a native Chinese instructor who has rich experiences in teaching Chinese as a foreign language. A weekly synchronous group learning activity is emphasized in this course to enhance real time student-instructor and student-student interaction. Students will traverse the Great Wall as they progress through the course using the highly interactive Chengo Chinese multimedia learning system developed on Olympic theme. Students will obtain basic communication competency in this course including such topics as traveling, weather, health, meeting an online friend, life in China, taking an exam and visiting an art show. Group problem solving projects will be both engaging and instructive for students to collaboratively explore the Chinese vocabulary and structure while reading introductory passages on Chinese culture. Students will work in groups to develop online Chinese language and culture learning materials and make them available for public access. Native speakers will be invited as guest speakers to share information on Chinese culture.

Mandarin Chinese 3A— *On-Line Course (.5 Credit) One Semester Course*

This course is designed for students who have completed Chinese 2A and 2B, or have equivalent proficiency in Chinese. At this level however, students begin their preparation for the Advanced Placement (AP) Chinese Language and Culture Exam administered by the College Board. Chinese 3A is a Pre-AP course designed for students who plan to take the advanced Chinese 4A and 4B courses. In Chinese 3A students continue to develop their Chinese vocabulary and understanding of grammar, while at the same time, deepening their knowledge of Chinese culture. The emphasis on culture in 3A and 3B shifts to a subject of study rather than functioning as a contextual backdrop as in earlier courses. In addition, Chinese Character learning and writing will be emphasized. Chinese 3A will be taught by a native Chinese instructor who has rich experiences in teaching Chinese as a foreign language. Weekly synchronous group learning activity is emphasized in this course to enhance real time student-instructor and student-student interaction.

Mandarin Chinese 3B— *On-Line Course (.5 Credit) One Semester Course*

This course is designed for students who have completed Chinese 2A, 2B and 3A, or have equivalent proficiency in Chinese. At this level students continue their preparation for the Advanced Placement (AP) Chinese Language and Culture Exam administered by the College Board. Chinese 3B is a Pre-AP course designed for students who plan to take the advanced Chinese 4A and 4B courses. In Chinese 3B students continue to develop their Chinese vocabulary and understanding of grammar, while at the same time, deepening their knowledge of Chinese culture. The emphasis on culture in 3A and 3B shifts to a subject of study rather than functioning as a contextual backdrop as in earlier courses. In addition, Chinese Character learning and writing will be emphasized. Chinese 3B will be taught by a native Chinese instructor who has rich experiences in teaching Chinese as a foreign language. Weekly synchronous group learning activity is emphasized in this course to enhance real time student-instructor and student-student interaction.

German 1 (A & B Full Year)— *On-Line Course (1 Credit)*

German 1 has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes and exams. Learning activities in each unit are focused upon a specific theme.

German 2 (A & B Full Year)— *On-Line Course (1 Credit)*

German 2 has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes and exams. Learning activities in each unit are focused upon a specific theme.

German 3 (A & B Full Year)— *On-Line Course* (1 Credit)

The purpose of this course is to provide students with the skills necessary to use the German language at a third-year level. Included are vocabulary for topics of intelligent everyday discussion, grammatical concepts to be able to use that vocabulary in a meaningful way, and cultural information about numerous aspects of life in (both present and past) in the German-speaking countries. German 3 has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading and listening, as well as a thorough grounding in various aspects of culture. Vocabulary tips are included in each unit. Students will review and expand upon skills learned in German 1 and 2, always proceeding from the known to the new. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes and exams. Learning activities in each unit are focused upon a specific theme.

German 4 (A & B Full Year)— *On-Line Course* (1 Credit)

This fourth year of German builds upon the first three levels. Students will continue to sharpen their reading, writing and listening skills as well as learn skills to think critically and express themselves on topics relevant to German culture. This fourth level will include authentic texts, current culture, and literature from Germany, Austria and Switzerland. Every two units will be a special focus on a particular region or city from these areas; these will include such things as culture, tourism and current events. Students will learn vocabulary, grammar skills and cultural competency to express themselves on a variety of topics in German. Cultural topics include: contemporary and classical music, expressing opinion, German history, transportation, family, weekend travel, free time activities, youth and technology, multiculturalism, holidays, education, career and travel in a foreign country. This course is aligned to the national ACTFL Foreign Language standards and provides a way to focus on the five aspects of foreign language instruction: communication, culture, connections, comparisons, and community. These are the “Five C’s of the Foreign Language Education” as outlined in *Standards*.

Latin 1 (A & B Full Year)— *On-Line Course* (1 Credit)

Building the Via Latina: You are about to build a Roman road, the Via Latina. This road will be the foundation for your study of Latin and the culture of ancient Rome. Famous Romans from the past have agreed to be your supervisors. They will invite you to dinner, regale you with stories from mythology, introduce you to other Romans, show you around their homes, entertain you at the chariot races or the gladiatorial fights, and give you a look at what it meant to be a Roman — politically, socially and economically. Your task is to learn Latin, the language of the Romans. So let’s start the building process and find out how different and yet how similar our worlds really are.

Latin 2 (A & B Full Year)— *On-Line Course* (1 Credit)

Welcome, movie star! You will continue your journey to the time of the ancient Romans, but this time you will be the star in our movie, "An Epic of Great Proportion." With your director, your script will include visits with some of the men who made Rome great. From them, you will learn about the Roman government and how Rome grew to rule most of the known world. Your epic movie will also take you back to the Trojan War where you will accompany the Greeks on a great adventure. Study your lines and get ready for "lights, camera, action!"

Latin 3 (A & B Full Year)— *On-Line Course* (1 Credit)

Take your knowledge and appreciation of Latin to the next level. Read some of the best Latin prose and poetry ever written or spoken. Let Caesar tell you how he conquered the three parts of Gaul. Be moved by the eloquence of Cicero as he reminds Romans of the virtues that made their country great. And marvel at how Catullus could express the deepest human emotions in just a few, well-chosen words. In Latin 3, you will visit our library of great authors. Your library card will give you access to the timeless words of the greatest Roman poets, storytellers and orators. Your skills with the Latin language will give you direct access to the beauty and power of their thoughts. The purpose of this course is to strengthen your Latin vocabulary as well as your appreciation for well-crafted writing. You will go directly to the source and recognize why Latin and those who spoke it are still relevant today.

Japanese 1 (A & B Full Year)— *On-Line Course* (1 Credit)

Japanese 1 has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes and exams. Learning activities in each unit are focused upon a specific theme.

Japanese 2 (A & B Full Year)— *On-Line Course* (1 Credit)

Japanese 2 has been carefully designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a method of teaching that focuses on successful communication through speaking, writing, reading and listening, as well as a thorough grounding in aspects of culture. Each unit embodies all of these standards in accordance with the theories described in this document. Unit activities blend different forms of communication and culture to ensure that the student meets all standards. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams. Learning activities in each unit are focused upon a specific theme.

Mathematics Course Descriptions

Algebra - KHS Core Class (1 Credit)

Students learn to describe the world around them with algebraic expressions, equations, graphs, and statistics. Students study each mathematical idea in depth through applications and practical problems to develop skills and to understand the importance of mathematics in everyday life. Statistics and geometry are used to develop a better understanding of linear equations and inequalities.

Algebra II- KHS Core Class (1 Credit)

This course covers advanced algebraic concepts such as trigonometry, statistical analysis, and permutations and sequences and series. Students learn to manipulate and use matrices in various formats to determine data relationships. Functions are given center stage in this course, delving into function types such as polynomial, logarithmic, quadratic, exponential and rational and periodic. Upon completion of this course, students will have the necessary and vital skills needed to experience success in state standardized tests and national exit exams.

Geometry - KHS Core Class (1 Credit)

Students develop an understanding of basic the basic geometric ideas of point, line, plane, and angle. Reflections are used to develop ideas of symmetry and congruence. Geometric models in two and three dimensions are used to develop the idea of proof and to further develop students' power of deductive reasoning.

Pre-Calculus - KHS Core 11th – 12th Grade Class (.5 Credit)

Students will be taught basic pre-calculus principles.

Financial Math - KHS Core 11th-12th Grade Class (.5 Credit)

This senior based math course covers various practical math skills that the student will use for life. Different topics such as: accounting, taxes, check book, credit reports, mental math, problem solving from a global perspective, statistics, and other such topics will be included in the class. This math class satisfies the Michigan Merit Curriculum's fourth year/level math course.

Calculus (A & B-Year Long)- On-Line Course (1 Credit)

Semester 1- The English physicist Isaac Newton and the German mathematician G. W. Leibniz, working independently, developed the calculus during the 17th century. The methods of calculus are essential to modern physics and to most other branches of modern science and engineering. This course is divided into two semesters and is designed to acquaint you with calculus principles such as derivatives, integrals, limits, approximation, applications and modeling, and sequences and series. During this course you will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications.

Semester 2- This course is designed to acquaint you with calculus principles such as derivatives, integrals, limits, approximation, applications and modeling, and sequences and series. During this course you will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications.

Mathematics of Baseball- On-Line Course (.5 Credit) One Semester Course

Baseball is a game of numbers on the field and off. Every run, hit and error has been carefully recorded for more than 100 years. Drawing on this wealth of statistics, this course uses mathematics to explore the history of our National Pastime. The course uses basic and applied mathematics skills including mean, median, mode, graphs (line graphs, bar graphs, pie graphs, scatter plots), ratios and proportions, conversions, scale drawings and spreadsheets. The baseball topics include reviewing the history, statistics, base running, coaching decisions, biographies of Hall of Fame inductees and field design. This course was developed using the resources of the National Baseball Hall of Fame in Cooperstown, New York.

Trigonometry (A & B Year Long) On-Line Course (1 Credit)

Semester 1 - This course reviews algebra and then introduces the student in depth to the trigonometric concepts of angles, identities, trigonometric values, trigonometric functions, trigonometric equations, laws of sine and cosine and complex numbers and polar coordinates. The students will need to master each concept before going on to the next concept.

Semester 2- This course reviews algebra and then introduces the student in depth to the trigonometric concepts of angles, identities, trigonometric values, trigonometric functions, trigonometric equations, laws of sine and cosine and complex numbers and polar coordinates. The students will need to master each concept before going on to the next concept.

AP Calculus (A & B-Year Long)- *On-Line Course* (1 Credit)

This is the first semester of a year-long class. This course is divided into two semesters and is designed to acquaint you with calculus principles such as derivatives, integrals, limits, approximation, and applications and modeling. During this course you will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications.

Upon completion of this course you will: be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal, understand the connections among these representations, understand the meaning of the derivative in terms of a rate of change and local linear approximation and be able to use derivatives to solve a variety of problems, understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change and should be able to use integrals to solve a variety of problems, and understand the relationship between the derivative and the definite integral as expressed in both parts of the fundamental theorem of calculus. In Term 2, This is the second semester of a year-long class. The material is the same as in the first semester but will be expanded upon. Students will use the same textbook or e-Text from the first semester. This course is divided into two semesters and is designed to acquaint you with calculus principles such as derivatives, integrals, limits, approximation, and applications and modeling. During this course you will gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications. Upon completion of this course you will: Be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal, Understand the connections among these representations, Understand the meaning of the derivative in terms of a rate of change and local linear approximation and be able to use derivatives to solve a variety of problems, Understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change and should be able to use integrals to solve a variety of problems, and Understand the relationship between the derivative and the definite integral as expressed in both parts of the fundamental theorem of calculus.

Probability & Statistics (A & B Full Year)- *On-Line Course* (1 Credit)

MMC Probability and Statistics 1A, according to the Michigan Merit Content Expectations, is based on the thought that “Students encounter variability in their lives, in their science and social studies coursework, and in the news media. Study of the topics in statistics and probability teaches students methods for summarizing data, introduces them to mathematical models for random phenomena, and provides tools for decision making under uncertainty.” The first semester of this course covers the following topics: Univariate and Bivariate Data, Sampling and Study Design, and Probability Models. .” The second semester of this course covers the following topics: Normal Curves and Sampling Distributions, Estimation, Hypothesis Testing, Inferences about Differences and Additional Topics Using Inference.

AP Statistics (A & B- Year Long)- *On-Line Course* (1 Credit)

Semester 1- This is the first semester of a year-long course. AP Statistics gives students hands-on experience collecting, analyzing, graphing and interpreting real-world data. They’ll learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they’ll know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields. AP Statistics 1A will cover describing data, normal distribution, bivariate data, planning a study and probability. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography and business.

Semester 2- This is the second semester of a year-long course. AP Statistics gives students hands-on experience collecting, analyzing, graphing and interpreting real-world data. They’ll learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results from another poll or study, they’ll know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real world uncertainties, statistics plays an important role in many fields. AP Statistics 1B will cover binomials and distributions, inference, distribution for means, inference for proportions, inference for tables and least-squares, final preparation for the AP Statistics Exam. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography and business.

Accounting & Financial Services – *TTC Course* (3 Credits)

Accounting/Financial Services offers students accounting technology in the career fields of payroll clerk, money manager, accounting assistant, accounting specialists and senior accounting. Students have the opportunity to gain competencies using business software to learn automated accounting, accounts receivable/payable and general ledger accounting commonly used in business. If a student is not sure he or she wants to work directly in the field of accounting, the Accounting/Financial Services curriculum can benefit individuals in any career. Microsoft Office Specialist, Word, Excel, PowerPoint, Access & Outlook certifications are offered and college credit may be earned. Student club: Business Professionals of America.

Science Course Descriptions

Biology - KHS Core Class (1 Credit)

This course is a study of life science from the molecular level to multicellular plants and animals. Topics to be studied include ecology, cellular chemistry, genetics, and the organization and classification of living things into the six kingdoms. Laboratory activities accompany each topic. Invertebrate study includes dissections of several representative organisms.

AP Biology KHS 11th-12th Grade Elective Class (1 Credit)

Semester 1: In AP Biology, students build the conceptual framework necessary to understand science as a process. The course is divided into three sections with correlating laboratory exercises: molecules and cells; heredity and evolution; and organisms and populations. Students will also explore evolution, energy transfer, continuity and change, the relationship of structure to function, regulation, interdependence in nature, and the balance of science, technology, and nature. The equivalent of an introductory college-level biology course, AP Biology prepares students for the AP Exam and for further study in health sciences. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks. This course is designed to be highly teacher facilitated. Instructors give a great deal of specific and timely feedback per lesson as students progress through the course.

Semester 2: In AP Biology, students build the conceptual framework necessary to understand science as a process. The course is divided into three sections with correlating laboratory exercises: molecules and cells; heredity and evolution; and organisms and populations. Students will also explore evolution, energy transfer, continuity and change, the relationship of structure to function, regulation, interdependence in nature, and the balance of science, technology, and nature. The equivalent of an introductory college-level biology course, AP Biology prepares students for the AP Exam and for further study in health sciences. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks.

Human Biology - KHS 11th-12th Grade Elective Class (1 Credit)

This course is a study of the systems of the human body. The components and functions of each system are explored. Problems caused by system malfunctions are included. Dissections of example organs and an in depth study of fetal pig anatomy provide laboratory experience.

Physics - KHS 11th-12th Grade Elective Class (1 Credit)

This course is the study of mechanics, the properties of matter, heat, and waves. These concepts will be taught using exploration, concept development, and application. Each concept will be reinforced with mathematical concepts as well as laboratory activities. Several out of school projects will be featured such as: egg drop, bridge building, and others. These projects will involve design and production of a device that will solve a problem that deals with the laws of physics. In the last marking period, the student will design and carry out an experiment of their own and report their findings to the class. Many of Newton's Laws will be reinforced during a spring field trip to Cedar Point.

Advanced Topics in Science- KHS 9th-12th Grade Elective Class (1 Credit)

Students will be exposed to four advanced areas of science in this class including Forensics, Astronomy, Zoology and Botany. Students will be exposed to the major concepts of the four subject areas with one topic being covered each marking period. Students will be learning about the major topics through hands-on experiments and labs, group projects and research, and class discussions.

Chemistry - KHS Core Class (1 Credit)

In this course, students will be exposed to problem solving, historical concepts of chemistry, in-depth study of the periodic table, balancing chemical equations, naming and writing formulas of different chemicals, and nuclear reactions. Students will be involved in a variety of laboratory experiences that involves the use of many different kinds of chemicals and equipment.

AP Chemistry KHS 11th-12th Grade Elective Class (1 Credit)

Semester 1: Successful completion of both Chemistry A and Chemistry B will prepare students for the College Board AP Chemistry test in May and further study in science, health sciences, or engineering. Students will use Apex instructional materials online and communicate with instructors through both Apex and a MVS course site. Tutorials, activities, labs, assignments, and discussion boards are used to build students' understanding of the nature and reactivity of matter. After studying the structure of atoms, molecules, and ions, students move on to solve quantitative chemical problems and explore how molecular structure relates to chemical and physical properties. Students will examine the molecular composition of common substances and learn to predictably transform them through

chemical reactions. Students are assessed through homework, labs, discussions, quizzes and tests. Students may be penalized for missing deadlines and the midterm and final exams must be proctored.

Semester 2: AP Chemistry B is the second semester of a two-semester introductory college level chemistry course.

Successful completion of both Chemistry A and Chemistry B will prepare students for the College Board AP Chemistry test in May and further study in science, health sciences, or engineering. Students will use Apex instructional materials online and communicate with instructors through both Apex and a *MVS* course site. Tutorials, activities, labs, assignments, and discussion boards are used to build students' understanding of the nature and reactivity of matter. After studying the structure of atoms, molecules, and ions, students move on to solve quantitative chemical problems and explore how molecular structure relates to chemical and physical properties. Students will examine the molecular composition of common substances and learn to predictably transform them through chemical reactions. Students are assessed through homework, labs, discussions, quizzes and tests. Students may be penalized for missing deadlines and the midterm and final exams must be proctored.

Introductory Chemistry and Physics – KHS Core Class (1 Credit)

Physical science is the introductory course to high school science courses and beyond. Students will expand on their middle school science experiences to prepare them for biology, chemistry and physics. This course will emphasize scientific thinking as a way of understanding the natural phenomenon that surrounds us. In this regard there will be numerous opportunities to dialog with other students about scientific theory and practice. In addition, there will be both simulated and real world laboratory experiences to further expand your scientific horizons. Upon completion of this course students will be conversant in a number of scientific topics, understand how science is used in our daily lives and be comfortable with solving simple algebraic equations that support scientific laws.

Robotics - KHS 11th-12th Grade Elective Class (1 Credit)

AP Physics (A & B Full Year) - On-Line Course (1 Credit)

AP Physics is the equivalent of a two-semester introductory college-level course. Successful completion of this course prepares students for the AP Physics B Exam. This course covers five major curricular areas: Newtonian mechanics, fluids and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics.

AP Environmental Studies (A & B Full Year) On-Line Course (1 Credit)

This curriculum covers all of the material outlined by the College Board as necessary to prepare students to pass the AP Environmental Science exam. This course is designed to acquaint you with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the inter-relationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading to environmental degradation and pollution. The course covers the following topics: Earth's Systems, Human Population Dynamics, Natural Resources, Environmental Quality, Global Changes, and Environment and Society.

Upon completion of this course you will: Know and understand the levels of the ecological hierarchy, appreciate the integration of natural processes that govern the natural world, appreciate the importance of maintaining a sustaining biosphere for the continued presence of a human population on the earth, understand the pragmatic and realistic difficulties of integrating human societal needs without further compromising ecological processes, become familiar with the ecological background to global environmental problems, realize the consequences of our individual and joint actions upon the biosphere.

Astronomy - On-Line Course (.5 Credit) One Semester Course

Astronomy continues to enjoy a golden age of exploration and discovery. The study of the cosmos has never been more exciting. This self-paced class presents a broad view of introductory astronomy for the beginner. It's an attempt to communicate to students the excitement about astronomy and awaken students to the marvelous universe around us. Looking at the solar system, stars and galaxies, we explore both current knowledge and a little historical perspective.

Oceanography (A & B Full Year) On-Line Course (1 Credit)

This course provides an excellent opportunity to gain knowledge about the physical and chemical structures of both salt and freshwater ecosystems. This course is interdisciplinary by way of explorations of various topics, providing an assortment of hands-on labs and video field trips. Oceanography encourages students to evaluate the appropriate kinds of research that are related to both natural and environmental issues.

Oceans and Their Ecosystems (A & B Full Year)-On-Line Course (1 Credit)

This course is designed to familiarize students with the basic concepts of oceanography and develop an understanding of marine ecosystems. Topics include water and differences, ocean ecosystems, circulation, resources and air/water interaction.

Anatomy & Physiology (A & B Full Year)-On-Line Course (1 Credit)

Semester 1: Anatomy is the bodily structure of living organisms and their parts; physiology is the study of the functions of living organisms and their parts. Anatomy and Physiology A presents a fascinating, in-depth exploration of the structure and function of the

human body. The course will use a systems approach and will emphasize how organs and body systems work together to carry on complex processes. Concepts and principles will be related to familiar health issues, problems and experiences we face as humans. Upon completion of this course, students will have a thorough understanding of the human body and how its parts work together to maintain the delicate equilibrium of life.

Semester 2: This course is a continuation of Anatomy and Physiology A. It's a fascinating, in-depth exploration of the structure and function of the human body. The course will use a systems approach and will emphasize how organs and body systems work together to carry on complex processes. Concepts and principles will be related to familiar health issues, problems and experiences we face as humans. Upon completion of this course, students will have a thorough understanding of the human body and how its parts work together to maintain the delicate equilibrium of life.

Human Space Exploration- *On-Line Course (.5 Credit) One Semester Course*

In 1957, the space age was launched with the 98-minute orbit of the Earth by the Russian (then known as the Union of Soviet Socialist Republics) satellite Sputnik. The launch of that basketball-sized satellite is considered the "Dawn of the Space Age." A year after Sputnik's historic orbit, the United States created the National Aeronautics and Space Administration (NASA). Since, then over 100 nations have conducted space research providing mankind with new information about the Earth and space. This one-semester course provides students with a history of space exploration and an overview of the scientific discoveries that have resulted from man's exploration of space.

Forensic Science- *On-Line Course- (.5 Credit) One Semester Course*

Students will be asked to learn the fundamentals definitions and the role of the forensic scientist. Also, focal points will be in the area: Basic DNA, Drugs, Firearms, Fingerprints, Trace Evidence, Spectroscopy, Chromatography, and Microscopy.

Bioethics *On-Line Course (.5 Credit) One Semester Course*

Bioethics is a rigorous, one-semester course designed to raise the consciousness of students regarding the social and ethical implications of life science, medicine and technology. This course is for 11th- and 12th-graders who are seeking improvement in their critical thinking skills. It is designed to create complex thinkers capable of using a variety of strategies and higher-order thinking skills appropriate to the resolution of highly controversial medical and technological dilemmas, including the use of animals in medical research and genetic engineering.

Landscaping & Turfgrass Technology- *TTC Course (3 Credits)*

Landscape Management explores the fields of landscape design, installation and maintenance. Areas of study include how to design using CADD system, pruning, watering, fertilizing, plant identification for residential and commercial sites. Michigan Nurseryman & Proven Winner certifications are offered, as well as, college credit. Student club: FFA Turfgrass Management explores the field of growing and maintenance of turfgrass. Residential, commercial parks and golf courses will be the areas of focus. Students will learn to plant, irrigate, fertilize and mow.

Natural Resources Management- *TTC Course (3 Credits)*

Natural Resources Management students will explore the environment, the natural resources, fisheries and wildlife and forest. Small Animal Care students will explore the fields of small animals. Students will care for a number of small animals in the classroom. The students may also explore other areas of animal interest as well. All programs may be taken for a second year. Programs provide the students with the academic needs as well as hands-on experiences. Students are encouraged to experience co-op or work experiences. Teamwork is emphasized written the areas of scientific inquiry and problem solving, throughout these courses. Michigan Floral, Michigan Nurseryman & Proven Winner Certifications are offered. Michigan Floral, Michigan Student club: FFA

Nursing Careers & Health Technology- *TTC Course (3 Credits)*

Join the fastest growing career area with the health care industry. Gain first hand, on-the-job experience working with professionals in local health care agencies, offices or facilities while enrolled in the program. Health Technology/Nursing Careers can open up a wide variety of employment possibilities and lead to a lifetime of satisfaction in helping others. This program is an advanced academic program for the self-disciplined and motivated student who is interested in pursuing a career in the health field. This is an exciting program that prepares students for articulation to Delta College, Ferris State University, Baker College or Davenport University for a smooth transition from high school to college. Students will also have the opportunity to become a Certified Nursing Assistant after passing their CENA exam. First Aid/CPR & Pharmacy Technician certifications are offered. Student club: Health Occupation Students of America.

Small Animal Care/ Floral & Greenhouse Technology- *TTC Course (3 Credits)*

Floral Design explores the careers in Flower shop Management. Students design floral arrangements, corsages, boutonnieres, wedding and funeral design students use fresh, silk and dried materials selling and management skills are taught in the TTC Flower Shop. College credits may be earned. Student club: FFA

Greenhouse Management explores the commercial growing of flowers; poinsettias, Easter Lilies, green plants, annuals and perennials. Students are taught the skills, planting, pruning, water fertilizing, and pest control in our greenhouses.

Social Studies Course Descriptions

U.S. History & Geography—KHS Core Class (1 Credit)

This course explores the story of United States History from the Civil War to the present. Students will interact with the past and see the impact of history on their lives today. Students will be motivated to study history through interactive exercises and hands-on activities. Students will also experience U.S. History through the use of videos, filmstrips, transparencies, and integrated technology.

World History—KHS Core Class (1 Credit)

This course is a study of early man to post World War II. Students will study various civilizations, including the Greeks, Romans, and Mesopotamia. Students will also study governments and individuals and how they influenced the social and political development of various nations. Students will gain knowledge thorough map work, an art unit, a mythology unit, and various videos and filmstrips.

Current Events – KHS 11th-12th Grade Elective Course (1 Credit)

Studies in current events will study local, state, national, and international issues. Students will engage in group discussions and debates. Students will review articles and express opinions on various issues. Topics that students will explore will include: Human Rights, Economic Development, Environmental Issues, and Political Discourse. Students will explore these areas through online media, television media, magazines, newspapers, and other materials provided in class.

U.S. Government –KHS Core Class (.5 Credit)

The study of government offers the opportunity to become familiar with the fundamentals of government concepts. We will study the principles and practices of our government, the political processes, national government, state government, local government, taxation and finance, and U.S. and world affairs.

U.S. Economics –KHS Core Class (.5 Credit)

The study of economics will offer the opportunity to become familiar with the fundamentals of economic concepts. We will study micro economic concepts including supply and demand, competition and the price system. Macroeconomic concepts studies include labor, money, government spending, banking, and financial investments. We will deal with the topics of Gross Domestic Product (GDP), the business cycle, unemployment, and inflation. We will also discuss economics as a global issue with the United States being a part of the world economy.

History Through Films KHS Elective 11th-12th Grade Zero Hour Class (1 Credit)

Psychology KHS Elective 11th-12th Grade Zero Hour Class (1 Credit)

The study of psychology offers the opportunity to become familiar with the introduction to the study of human behavior. The focus of the course will be the theories of psychology, as well as research in the areas of perception, learning, child development, personality development, and human behavior.

Native American History- On-Line Course (.5 Credit) One Semester Course

Native American History takes you on a journey from the “The Most Ancient Ones” to the present day. Students will study the earliest migration of Native Americans to the North American continent, their resistance to colonialism, the western expansion of colonists and its impact on Native American land and traditions. You’ll also study U.S. federal policies that greatly affected the survival and continuity of native cultures through many years of conquest and change, the key contributions of Native Americans during World War II, and their present status in American society.

Sociology- On-Line Course (.5 Credit) One Semester Course

Designed as a one-semester course for high school students, the curriculum outlines the fundamental concepts of sociology. The elements of sociology examined include cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior both historically and in modern times.

AP Government & Politics - *On-Line Course (.5 Credit) One Semester Course*

AP U.S. Government & Politics is a one-semester course that is designed to acquaint the student with the many facets of government in America. The curriculum covers all of the material outlined by the College Board as necessary to prepare students to pass the AP U.S. Government and Politics exam. Upon completion of this course, learners will: Explain the foundations and underpinnings of democratic government, demonstrate comprehension of documents essential to American government and politics, evaluate the importance of federalism in the political operation of the nation, describe the nature of American political parties and their role in the election process, analyze the patterns of voter behavior, describe the functions and workings of policy making institutions (Congress, the Presidency, the courts and the bureaucracy), analyze the major developments in civil rights and civil liberties in America, express ideas clearly in writing, work individually and with classmates to research political issues, interpret and apply data from original documents such as court cases and bills, write to persuade with evidence, develop essay responses that include a clear, defensible thesis statement and supporting evidence, raise and explore questions about policies, institutions, beliefs, and actions in a political science context, evaluate secondary materials, such as scholarly works or statistical analyses.

AP Psychology *On-Line Course (.5 Credit) One Semester Course- (If Zero Hour isn't available at KHS)*

AP* Psychology provides an overview of current psychological research methods and theories. They'll study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of a 100-level college survey course, AP Psychology prepares students for the AP Exam and for further studies in psychology and life sciences.

AP Micro-Economics *On-Line Course (.5 Credit) One Semester Course*

In Microeconomics, you travel to Macro Islands to assist the leader in winning reelection. You will soon realize that you love the islands and want to make your home there. You are appointed as the new President of the Sunny Sea Shell Company. As part of your role in assuming the leadership duties of the company, you will need to brush up on microeconomics. The Board of Directors has appointed Ms. Equilibrium to act as your personal assistant and advisor as you transition into your new role. You will be learning all you can about microeconomics and will be required to exhibit your knowledge at the annual Board of Director's meeting (the AP Exam). This course prepares students for the national AP Microeconomics examination in May. Successful completion of the national exam can result in the awarding of college credit to the student.

AP Macro-Economics *On-Line Course (.5 Credit) One Semester Course*

In Macroeconomics, you have been called upon to assist the leader of the Macro Islands who is running for reelection next year. The Macro Island economy has been having problems, and you need to come up with some feasible solutions. This will not only help the people of the Macro Islands but will also insure a victory for your employer. Upon your arrival at Pineapple Airport, you are met by "Mr. Scarcity," who will be your guide as you learn about the economic situation of the islands. You will be learning all you can about macroeconomics until your presentation to the island leader in May (the AP Exam). Successful completion of the national exam can result in the awarding of college credit.

AP U.S. History (A & B Full Year)- *On-Line Course (1 Credit)*

Semester 1: This is the first term of a year-long course. AP U.S. History is a challenging course that is meant to be the equivalent of a college survey course. This course is designed to acquaint students with American history from the age of exploration and discovery to the present. Reading, high-level writing and the willingness to devote a considerable amount of study are needed to succeed. Emphasis is placed on reading comprehension, evaluating primary and secondary sources, and critical and evaluative thinking skills.

Semester 2: This is the second section of a year-long course. It will discuss more of the same material listed in History 1A.

AP U.S. History is a challenging course that is meant to be the equivalent of a college survey course. This course is designed to acquaint students with American history from the age of exploration and discovery to the present. Reading, high-level writing, and the willingness to devote a considerable amount of study are needed to succeed. Emphasis is placed on reading comprehension, evaluating primary and secondary sources, and critical and evaluative thinking skills.

Legal Issues *On-Line Course (.5 Credit) One Semester Course*

What are your rights if you are fired from a job? Do know how to read a contract? Would you know what to do if a family member was injured by their medical physician? The law governs our lives, but do we really know its practical application? This course will walk you through several aspects of Legal Issues ... contract, criminal, domestic, landlord, marriage and medical malpractice are among the Issues covered in this course. If you are interested in the law, or if you just want to make sure you know what you need to survive in this world, Legal Issues is YOUR course.

Law Enforcement & Protective Services- *TTC Course (3 Credits)*

Students will have an opportunity to experience the challenge of working in the public sector and the importance of community involvement. Law Enforcement/Protective Services is a program that offers the introduction of all aspects of the criminal justice profession. Students will have the opportunity to participate in work experience with various criminal justice organizations. They will work with law enforcement department members to enhance their training and education. The program prepares students to work

in a professional and courteous manner with members of the community. Samplings of law enforcement/protective services organizations participating are local police departments, court systems, correctional facilities, volunteer agencies, and many more. College credits may be earned. Student club: Skills USA.