

Altoona Area School District

Altoona Area High School

Secondary Education

Course Descriptions

Grades 9-12

2020-2021

Altoona, Pennsylvania

Message from the Principal

Students and Parents,

Scheduling is an extremely important step in ensuring not only a fulfilling school year, but also ensuring future success beyond high school. The Altoona Area High School offers a comprehensive menu of courses to meet the needs and interests of all learners. We strive to provide each student with the comprehensive skill sets necessary to thrive in a competitive, complex, and ever-evolving society.

Our administration, teachers, and school counselors will assist you in selecting a program of study. The perfect student schedule is one that challenges, inspires and prepares.

The scheduling process is all about you and your future. Your schedule should reflect your interests and future goals. We encourage you to take a career interest survey. Here is a link to a survey located on our Choices360 website, <https://www.choices360.com/>. Additionally, take a look at the prescribed pathways that we have suggested in this booklet as well. These tools will help you schedule in a way that best prepares you for the future you imagine.

It is my desire that your schedule and high school experience provide you with skills, knowledge, and experience that will serve you long into your future; whatever that future may hold.

A handwritten signature in black ink, appearing to read 'A. Neely', with a long, sweeping underline.

Mr. Andrew S. Neely, M.Ed.

Principal – Altoona Area High School



www.aasdcad.com

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Altoona Area High School

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GRADUATION REQUIREMENTS

Starting with the 2020-21 school year AAHS will operate on an eight period day schedule. This change requires an adjustment to the number of credits to graduate. The following is a breakdown of the number of credits needed to graduate.

- Class of 2021 - 25
- Class of 2022 - 26
- Class of 2023 - 27
- Class of 2024 - 28

Beyond a minimum credit count, students must have the correct number of credits in the various disciplines as outlined.

- English (4)
- Social Studies (3)
- Mathematics (3)
- Science (3)
- Physical Education (1)
- Health (.5)
- Graduation Project Completed Senior Year in English Class

SCHEDULING CHANGES

Schedule changes are not made after the school year starts unless it can be determined by the teacher, department head, school counselor, and the Assistant Principal that the course is above the student's level of comprehension. **If a student drops a course after 30 school days, a "drop-failure" will be recorded on his/her permanent record and will be utilized to determine class rank.**

ENHANCEMENT OPPORTUNITIES

Fall

<u>Class</u>	<u>Event</u>	<u>Location</u>
All Invited	Opportunity Fair	AAHS Field House
Juniors	ASVAB Test	AAHS
Juniors	PSAT	AAHS
All Invited	Financial Aid Night	AAHS Auditorium
Seniors	FAFSA Workshop	AAHS Career Center
Juniors	Career Shadowing Week	Various Sites

Spring

<u>Class</u>	<u>Event</u>	<u>Location</u>
Sophomores	Rotary Career Fair	Convention Center
All Invited	Job Fair	AAHS

CAREER PATHWAYS

ARTS & COMMUNICATIONS

This pathway is designed to cultivate students' awareness, interpretation, application and production of visual, verbal, and written work.

BUSINESS & TECHNOLOGY

This pathway is designed to prepare students for careers in the world of business, finance, and information systems.

ENGINEERING & INDUSTRIAL

This pathway is designed to cultivate students' interests, awareness and application to areas related to technologies necessary to design, develop, install or maintain physical systems.

HUMAN SERVICES

This pathway is designed to cultivate students' interests, skills and experiences for employment in careers related to family and human needs.

SCIENCE & HEALTH

This pathway is designed to cultivate students' interests in the life, physical and behavioral sciences, in addition to the planning, managing and providing of therapeutic services, diagnostic services, health information and biochemistry research development.

What are career pathways?

Each pathway is a broad grouping of careers that share similar characteristics and whose employment requirements call for many common interests, strengths and competencies. A chosen pathway focuses a student's elective courses toward preparing for a specific goal area.

Why should I choose a career pathway?

- To help focus on a career area that matches interests in high school
- To help set goals and discover classes necessary to achieve those goals
- To create career awareness and encourage planning for postsecondary education and opportunities
- To provide knowledge that relates your high school education to the world after graduation

How do I choose a career pathway?

You will use Choices360 as a guide to understanding your interests and what careers are connected to those interests. Also, talk to your school counselor, parents, and teachers to assist in choosing.

Will there be any change in my major academic studies?

No, you will still follow the graduation requirements for Altoona Area School District.

PROGRAMS AT THE GREATER ALTOONA CAREER AND TECHNICAL CENTER

Automotive Technology

Transportation, Distribution and Logistics

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

Automotive/Diesel Technology

Transportation, Distribution and Logistics

A program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

Cabinetmaking and Finish Carpentry

Manufacturing

An instructional program that prepares individuals to apply technical knowledge and skills in the production of products such as window frames, moldings, trim and panels and such products as furniture, store fixtures, kitchen cabinets and office equipment. Instruction includes training in cutting, shaping and assembling parts using hand tools and woodworking machines (including CNC) and refinishing furniture and installing hardware (hinges, catches and drawer pulls). Instruction also includes planning layouts, blueprint reading, drafting and knowledge of practical uses and identification of various kinds of woods.

Carpentry/Construction

Architecture and Construction

An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

Collision Repair and Refinishing Technology

Transportation, Distribution and Logistics

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

Computer Programming

Information Technology

An instructional program that prepares individuals to apply technical knowledge and skills to support the design and development of software applications. This program is designed to provide the capacity to prepare and interpret process and data models, develop and structure software components and to validate the functionality, usability and reliability of those components. Validation skills include testing and debugging. System, component and user documentation is to be performed throughout the process. This program will provide students with the ability to integrate new and existing components. Students will receive instruction in at least two programming languages including at least one procedure-oriented language and one object and visually-oriented language. This course provides a thorough practical knowledge of the concepts, theories, logic and critical thinking skills required when building software applications. Students completing the program will possess a basic technical foundation needed to pursue postsecondary degrees leading to a career as a software developer, analyst project leader or in the management of information technologies. Students may prefer to immediately enter the labor market in an entry-level position as developer or analyst.

Computer Technology/Cisco Academy**Information Technology**

An instructional program that focuses on the design, implementation and management of linked systems of computers, peripherals and associated software and prepares individuals with the technical skills required to support networks and network users. This program includes instruction in networks technologies and standards: system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, troubleshooting and server optimization. Those completing the program may be employed as a network administrator, network specialist, network technician, webmaster, client services analyst (end user) or network operator.

Cosmetology**Human Services**

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination. GACTC students, upon completion of hours and course, have the opportunity to take the State Board Exam prior to graduation.

Culinary Arts**Hospitality & Tourism**

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Students who desire employment in all areas of the food service industry at entry level are provided instruction skills.

Dental Assistant**Health Science**

An instructional program that prepares individuals to function effectively as an integral member of the dental health team. The practitioner will perform chair-side assisting, related office duties and selected dental office laboratory procedures and dental radiography under the supervision of a licensed dentist. The planned courses should include instruction in universal precautions, OSHA regulations, communications skills, computer literacy, psychology, anatomy and physiology, microbiology and nutrition. Dental Science instruction shall include content in dental materials, dental radiography, oral anatomy, histology, oral embryology, oral pathology and therapeutics. Clinical science should emphasize the principles and application of office management, chair-side assisting, dental emergencies and legal/ethical aspects of dental practice. Clinical practice is an integral part of the program designed to perfect students' competence in performing dental assisting functions. The program must include concurrent theoretical and practical application of content areas.

Digital Printing Technologies**Arts, A/V Technology and Communications**

A program that prepares individuals to apply HTML, XML, Javascript, graphics applications and other authoring tools to the design, editing and publishing (Launching) of documents, images, graphics, sound and multimedia products on the World Wide Web. This program includes instruction in Internet theory, web page standards and policies, elements of web page design, user interfaces, vector tools, special effects, interactive and multimedia components, search engines, navigation, morphing, e-commerce tools, and emerging web technologies.

Drafting and Design**Manufacturing**

An instructional program that generally prepares individuals to apply technical knowledge and skills as each relates to gathering and translating of data or specifications including basic aspects of planning, preparing and interpreting mechanical, architectural, chemical, structural, civil, pneumatic, marine, electrical/electronic, topographical and other drawings and sketches used in various engineering fields. Instruction is designed to provide experiences in drawing and CAD; the use of reproduction materials, equipment and processes; the preparation of reports and data sheets for writing specifications; the development of plan and process charts indicating dimensions, tolerances, fasteners, joint requirements and other engineering data; the development of models; and drafting multiple view assembly and sub-assembly drawings as required for manufacture, construction and repair of mechanisms.

Electrical Trades**Architecture and Construction**

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Electromechanical Engineering Technology**Manufacturing**

An instructional program that prepares individuals to apply basic electronic principles and technical skills to the production, calibration, estimation, testing, assembling, installation and maintenance of electronic equipment. Emphasis is on passive components and solid-state devices; digital circuits; optoelectronic devices; operational amplifiers; audio and RF amplifiers; oscillators; power supplies; and AM, FM and PCM modulators. Knowledge is acquired through theoretical instruction, experimentation and hands-on activities. Instruction will develop basic levels of knowledge, understanding and associated skills essential for entry-level employment in communications, industrial electronics, digital processing, robotics, avionics, biomedical technology and other electronics occupations.

Emergency Services**Law, Public Safety and Security**

An instructional program that prepares individuals to apply technical knowledge and skills required to perform entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

Health Occupations**Health Science**

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

Heating, Ventilation, Air Conditioning and Plumbing Architecture and Construction

An instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems.

Interior Decorating and Finishing Architecture and Construction

An instructional program that prepares individuals to apply technical knowledge and skills in applying paint, varnish, stains, enamels or lacquers to decorate and protect interior and exterior surfaces and using sandpaper, paint remover, scraper, wire brush or blow torch to prepare surfaces for finishing. Learning experiences also include filling nail holes, cracks and joints with putty, plaster or other filler; selecting premixed paints or preparing paint to match specified colors by mixing required portions of pigment, oil, thinning material or drying substances; and painting surfaces with brush, splat gun or painting roller. Instruction includes simulating wood grain, marble, brick and other effects and creating special effects by applying paint with cloth, brush, sponge or fingers. Hanging wallpaper and fabrics may also be included in the instructional program.

Logistics and Materials Management Transportation, Distribution and Logistics

An instructional program that prepares individuals to manage and coordinate logistical functions in an enterprise and to undertake the responsibilities associated with receiving, storing, shipping, controlling and distributing products and materials and the various systems and record keeping pertaining to these operations. Students will be instructed in the use of storage space, inventory control and shipping and receiving practices; equipment such as fork lifts, conveyors, hand trucks, carts and other devices used to transport materials and/or supplies to various destinations; and the various types of packaging techniques necessary for safe transport of goods. Students will learn the many types of documents used in logistics such as purchase orders, invoices, bills of lading, requisitions, quotations, etc. Students will also be instructed in the areas of transportation and traffic which will cover freight rates and tariffs, freight classification rules and freight rate analysis.

Masonry Architecture and Construction

An instructional program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of brick, concrete block, glass block, hard tile, marble and related materials using trowels, levels, hammers, chisels and other hand tools.

Multimedia and Web Design Information Technology

A program that prepares individuals to apply HTML, XML, Javascript, graphics applications and other authoring tools to the design, editing and publishing (Launching) of documents, images, graphics, sound and multimedia products on the World Wide Web. This program includes instruction in Internet theory, web page standards and policies, elements of web page design, user interfaces, vector tools, special effects, interactive and multimedia components, search engines, navigation, morphing, e-commerce tools, and emerging web technologies.

Outdoor Power Equipment Technology Transportation, Distribution and Logistics

An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small internal-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chain saws, outboard motors, rototillers, snowmobiles, lawn mowers, motorcycles, personal watercraft and pumps and generators. This program includes instruction in the principles of the internal-combustion engine and all systems related to the powered unit. Instruction also includes the use of technical and service manuals, state inspection code, care and use of tools and test equipment, engine tune-up/maintenance, engine overhaul, troubleshooting and diagnostic techniques, drive lines and propulsion systems, electrical and electronic systems, suspension and steering systems and service operations and parts management.

Precision Machining**Manufacturing**

An instructional program that prepares individuals to apply technical knowledge and skills in all aspects of shaping metal parts. Instruction involves making computations relating to work dimensions, tooling and feeds and speeds of machining. Emphasis is placed upon bench work and the operation of lathes, power saws, shapers, milling machines, grinders, drills and computer operated equipment (CNC and CIM). Instruction also includes the use of precision measuring instruments such as layout tools, micrometers and gauges; methods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts. Instruction prepares students to operate all types of hand and computer controlled machines.

Retail Marketing and Entrepreneurship**Marketing, Sales and Service**

An instructional program that provides instruction in the fields of sales, distribution and marketing operations and focuses on the process and techniques of direct wholesale and retail buying and selling operations. This program is concerned with marketing, sales, distribution, merchandising and management including ownership and management of enterprises engaged in marketing. Marketing education programs prepare individuals to perform one or more marketing function such as selling, pricing, promotion, product/service management, distribution, financing and marketing information management. In addition, instructional programs include varying emphasis on technical knowledge of products and/or services marketed; related communication, economic, technological and computation skills; and abilities and attitudes associated with human relations. The program may also include management functions associated with owning and operating a business. Sales, distribution and marketing operations prepares individuals for occupations in such businesses as retail and wholesale trade, finance, insurance, real estate, entertainment, hospitality, food service, communications, storage and distribution.

Visual Arts Technology**Arts, A/V Technology and Communications**

An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of printed media. This program includes instruction in concept design, layout, paste-up and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics.

Welding Technology**Manufacturing**

An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes and welding rods; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.

Any student who is interested in attending a program at the GACTC should speak to his/her school counselor about getting an application. Factors that will be considered by the GACTC are solid academic performance and attendance.

ALTOONA CYBER ACADEMY

The Altoona Cyber Academy is bringing a new educational environment to over seventy students and is continuing to grow. We are adding electives to expand the opportunities for all students to broaden their knowledge. Students also have the opportunity to participate in a blended schedule approach, where they are able to take ACA core subjects and then come to AAHS for electives such as Tech. Ed. and Music. Greater Altoona Career and Technology Center students may also participate in ACA.

ACA provides a rigorous online environment where students must be self-motivated and take initiative to learn the material to succeed. Students are given work on a weekly schedule to complete in a timely manner and are expected to communicate as needed. The students who truly excel in this program stay on a daily schedule as if they were in the school building and communicate regularly. The program offers the following but is not limited to:

- Our teachers are district employees who are highly qualified & experienced in their respective fields.
- Flexible hours to teachers and staff--Teachers are available before, during, and after school hours to meet for assistance with school work or other issues.
- The program is constantly evolving and new staff have been added to create future electives.
- Upon graduation, students will receive an Altoona Area School District diploma.
- Classes taken in ACA coincide with the curriculum and courses taken in the regular, brick and mortar setting.
- School work can be completed at any time of the day with no strict 7:00 a.m.-3:00 p.m. schedule.
- Google Hangouts, an online Skype tool, and Google Classroom are features of the Academy.
- Meetings for students are held in a low stress environment, away from heavy, student traffic in the hallways.
- Your school counselor will remain the same, even when you are enrolled in ACA.
- You will have the same opportunities as every other student in the district. You can participate in all clubs, sports, music programs, dances, prom, etc.
- Our ACA laptops are equipped with a Verizon 4G wireless chip, meaning students do not need to have their own internet/Wi-Fi connection in order to access their work. They can complete school work from anywhere they can receive a wireless signal.

Core Subjects

- | | | |
|--------------------------|-----------------------------|--------------------------|
| • Algebra 1 | • Academic English 12 | • Academic World Studies |
| • Intermediate Algebra 1 | • English 11 | • Physical Science |
| • Intermediate Algebra 2 | • Academic English 11 | • Chemistry |
| • Geometry | • English 10 | • Academic Chemistry |
| • Academic Geometry | • Academic English 10 | • Physics |
| • Algebra 2 | • American Studies | • Academic Physics |
| • Academic Algebra 2 | • Academic American Studies | • Environmental Science |
| • Algebra 3 | • World Studies | • Biology |
| • Academic Algebra 3 | | |
| • English 12 | | |

Semester Electives

- | | | |
|------------------------------|----------------------------|----------------------|
| • Probability and Statistics | • Teen and Law | • Physical Education |
| • Advanced Functions | • Sociology | • Health |
| • Skills Refresher | • Art 1 | • Driver's Education |
| • Creative Writing | • Management and Marketing | • Community Service |
| • Greek Mythology | • Survey Music | • Work Experience |

STEPS TO REGISTER WITH THE NCAA

** Prior to scheduling courses each year (9-12) check the Altoona Area School District courses that are approved by the NCAA.

STEP 1: Student athletes who want to play in college should register with the NCAA Clearinghouse in May of the **junior year**. To register, the student athlete needs to apply online at www.eligibilitycenter.org. The registration fee is \$90. See your school counselor for a fee waiver if you receive free or reduced lunches.

STEP 2: After the student registration is complete, you must request your high school transcripts be sent to the NCAA Clearinghouse. One will be sent as a final junior transcript and one will be sent as a final senior transcript. (If the student has attended more than one high school, each high school must receive a copy of the completed Student Release form. A transcript must be sent from each high school attended.)

STEP 3: All prospective student-athletes intending to enroll in an NCAA Division I or II institution for the first time must complete the NCAA Amateurism Certification questionnaire.

STEP 4: College entrance test scores must be reported directly from either ACT or SAT. They will not be accepted from the high school transcript. When registering to take the SATs or ACTs you must select the NCAA as one of your score recipients. Additional score reports can be sent later, but at additional cost.

STEP 5: Upon completion of the junior year, request the final junior year transcript be sent to the Eligibility Center. You will receive an initial statement from the Clearinghouse in the fall of your senior year.

STEP 6: Before the end of the senior year, you must complete the Final Amateurism Certification for each sport. Log back into your account at www.eligibilitycenter.org. Click on MY PLANNER. Then select the red "Request Final Amateurism" button and follow the instructions.

STEP 7: After graduation, the student's final senior transcript with the exact date of graduation must be sent to the Eligibility Center from the high school. Be sure to make this request in the main office before you leave AAHS. The student will then receive a final clearing statement from the Clearinghouse.

In completing the registration forms, the Altoona Area high school CEEB code is 390055.

Clearinghouse Customer Services:
NCAA Eligibility Center
Certification Processing

Service Hours: 8 a.m. – 5 p.m. Central Time
Toll Free: 877-262-1492 FAX: 317-968-1500

ASSESSMENT PROGRAM GRADES 8-12

<p>8TH Grade</p> <p>State Assessments:</p> <ul style="list-style-type: none"> • PSSA Math (Spring) • PSSA ELA (Spring) • PSSA Science (Spring) • Algebra 1 Keystone (May) <p>District Assessments:</p> <ul style="list-style-type: none"> • Benchmarks/Marking Period • Core Subjects Semester Finals 	<p>9th Grade</p> <p>State Assessments:</p> <ul style="list-style-type: none"> • Algebra 1 Keystone (December/May) • Biology Keystone (May) <p>District Assessments:</p> <ul style="list-style-type: none"> • Benchmarks/Marking Period • Core Subjects Semester Finals
<p>10th Grade</p> <p>State Assessments:</p> <ul style="list-style-type: none"> • Keystone Biology (retake Winter & Spring) • Keystone Algebra 1 (retake Winter & Spring) • Keystone Literature (Spring) <p>District Assessments:</p> <ul style="list-style-type: none"> • Benchmarks/Marking Period • Core Subjects Semester Finals • PSAT (Fall) 	<p>11th Grade</p> <p>State Assessments:</p> <ul style="list-style-type: none"> • Keystone Biology (retake Winter & Spring) • Keystone Algebra 1 (retake Winter & Spring) • Keystone Literature (retake Winter & Spring) <p>District Assessments:</p> <ul style="list-style-type: none"> • Benchmarks/Marking Period • Core Subjects Semester Finals <p>Standardized Assessments:</p> <ul style="list-style-type: none"> • PSAT (Fall) • SAT or ACT (Required for Higher Education Schools)
<p>12th Grade</p> <p>State Assessments:</p> <ul style="list-style-type: none"> • Keystone Biology • Keystone Algebra 1 • Keystone Literature <p>District Assessments:</p> <ul style="list-style-type: none"> • Benchmarks/Marking Period • Core Subjects Semester Finals <p>Standardized Assessment:</p> <ul style="list-style-type: none"> • SAT or ACT 	

CAREER AND TECHNICAL EDUCATION (CTE)

AAHS FAMILY CONSUMER SCIENCE DEPARTMENT

PROGRAM OF STUDY

- **Child Care and Support Services Management**

This program prepares students for a variety of occupations in child care and guidance often under the supervision of professional personnel in child or day care centers. This program can also be taken as a stepping stone for those students who want to become early childhood and/or elementary education teachers. The courses include working with infants and toddlers through the Child Zone Preschool and School-Age Parenting Programs.

1ST Year in Program

Early Child Development _____ (0.5 cr.)
Child Development _____ (0.5 cr.)
Child Care 1 _____ (1.0 cr.)
Caregiving Challenges _____ (0.5 cr.)

2nd Year in Program

Child Care 2 _____ (1.0 cr.)
Child Care 3 _____ (1.0 cr.)
Caregiving Principals _____ (0.5 cr.)

3rd Year in Program

Child Care 4 _____ (1.0 cr.)
School – to – Career* _____ (2.0-3.0 cr.)

Support Services Management Electives

(only count if the majority of the credits above are taken and passed)

Consumer Strategies _____ (0.5 cr.)	Food Challenges _____ (0.5 cr.)
Specialty Fashions 1 _____ (0.5 cr.)	Multicultural Foods _____ (0.5 cr.)
Specialty Fashions 2 _____ (0.5 cr.)	Family Issues _____ (0.5 cr.)
Lifetime Nutrition _____ (0.5 cr.)	

*Before School-to-Career placement is established, the student needs to complete a stated mandated 600 hours of child development theory and related supervised lab experience.

After completing or in the process of completing the above courses in the Program of Student, students are eligible to take the NOCTI (National Occupational Competency Testing Institute) during their 12th grade year. If you score Advanced and receive certification, you can earn up to **three (3) free college credits** and/or could be employed at a higher rate of pay than someone who does not have this certification.

The Child Care and Support Services Management also allow students to test for CPR certification and Child Development Associate (CDA) certification.

CAREER AND TECHNICAL EDUCATION (CTE) AAHS BUSINESS EDUCATION DEPARTMENT

PROGRAMS OF STUDY:

- **Administrative Assistant/Secretarial Science**
This program is designed to prepare students to perform the duties of administrative assistants and/or secretaries. Those completing the program may be employed as an administrative assistants, corresponding secretaries, legal secretaries, medical secretaries, office clerks, clerk-typists, and medical record clerks.
- **Accounting Technology/Technician and Bookkeeping**
This program is designed to provide technical administrative support to professional accountants and other financial management personnel. Those completing the program may be employed as accounting clerks, credit clerks, payroll clerks, general bookkeepers, bank clerk/tellers, auditing clerks, and inventory clerks.

1st Year in Program

Administrative Assistant & Accounting Technology

Introduction to Business _____ (1.0 cr.)
Accounting 1 _____ (1.0 cr.)

2nd Year in Program

Administrative Assistant

Microcomputer Apps _____ (1.0 cr.)
MSWord/PowerPoint _____ (0.5 cr.)
Career Exploration _____ (0.5 cr.)
Elective (choose below) _____ (0.5 cr.)

Accounting Technology

Accounting 2 _____ (1.0 cr.)
MS Excel/Access _____ (0.5 cr.)
Money Management 1 _____ (0.5 cr.)
Elective (choose below) _____ (0.5 cr.)

3rd Year in Program (enrolled only if 1st and 2nd years are complete)

Administrative Assistant

Personal Finance _____ (1.0 cr.)
School-to-Career or _____ (2.0-3.0 cr.)
Community Service

Accounting Technology

Money Management 2 _____ (1.0 cr.)
School-to-Career or _____ (2.0-3.0 cr.)
Community Service

General Business Electives

Emerging Technologies _____ (0.5 cr.)	Multimedia _____ (0.5 cr.)
Mgmt. & Marketing _____ (0.5 cr.)	Business Law & Ethics _____ (0.5 cr.)
Computer Science _____ (0.5 cr.)	Coding with Python 1 _____ (0.5 cr.)
Career Exploration _____ (0.5 cr.)	Coding with Python 2 _____ (1.0 cr.)
AP Comp. Sci. Principles _____ (1.0 cr.)	AP Computer Science _____ (1.0 cr.)

After completing or in the process of completing the above courses in the Program of Student, students are eligible to take the NOCTI (National Occupational Competency Testing Institute) during their 12th grade year. If you score Advanced and receive certification, you can earn up to **three (3) free college credits** and/or could be employed at a higher rate of pay than someone who does not have this certification.

English Courses

Advanced Placement English Literature & Composition 0001

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors English 11 or AP English Language & Composition

Dual Enrollment: Yes Level 5

The course is a college-level course involving extensive and intensive reading of recognized literary classics of both prose and poetry; it also requires the study and practice of writing with the goal of responding critically to the works read with sensitivity and incisiveness. Students prepare to take the examination provided by the College Entrance Examination Board in May. Expectations for this course are very high. The course is taught at the collegiate level.

Honors English 12 0002

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors/Academic English 11

Dual Enrollment: No Level 4

The course is for college-bound students looking to analyze and evaluate text in all academic areas. The writing in this class mirrors what students may encounter at the college level, ie, annotated bibliography, reflective and exploratory analyses, position papers, as well as APA formatting, which is used for science and business majors. Students demonstrate their understanding and ability to analyze through discussion, writing assignments, speeches, and projects. Students will continue to explore literature through the Reader's Workshop.

Academic English 12 0003

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic English 11

Dual Enrollment: No Level 3

This course is for college-bound students needing extensive practice in writing, to best prepare for the types of writing required at the college level. Students demonstrate their understanding and ability to analyze through discussion, writing assignments, and projects. Students will continue to explore literature through the Reader's Workshop.

English 12 0004

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: English 11

Dual Enrollment: No Level 2

The major focus of this course is the development of effective writing skills and the appreciation and analysis of literature. Through reading, writing, speaking, and listening activities, students will develop the critical thinking, creativity, collaboration, and communication skills necessary for college and career readiness. Students will continue to explore literature through the Reader's Workshop.

Advanced Placement English Language and Composition 0071

NCAA Approved: No Year, 1.0 Credit Prerequisites: Honors English 10
Dual Enrollment: No Level 5

This course is a college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style. Students prepare to take the examination provided by the College Entrance Examination Board in May. Expectations for this course are very high.

Honors English 11 0006

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors/Academic English 10
Dual Enrollment: No Level 4

The course is for college-bound students looking to analyze and evaluate text in all academic areas. The writing in this class mirrors what students may encounter at the college level, ie, annotated bibliography, reflective and exploratory analyses, position papers, as well as APA formatting, which is used for science and business majors. Students demonstrate their understanding and ability to analyze through discussion, writing assignments, speeches, and projects. Students will continue to explore literature through the Reader's Workshop.

Academic English 11 0007

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic English 10
Dual Enrollment: No Level 3

This course is for college-bound students needing extensive practice in writing, to best prepare for the types of writing required at the college level. Students demonstrate their understanding and ability to analyze through discussion, writing assignments, and projects. Students will continue to explore literature through the Reader's Workshop.

English 11 0008

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: English 10
Dual Enrollment: No Level 2

The major focus of this course is the development of effective writing skills and the appreciation and analysis of literature. Students will experience both classics of world literature and contemporary pieces. Through reading, writing, speaking, and listening activities, students will develop the critical thinking, creativity, collaboration, and communication skills necessary for college and career readiness. Students will continue to explore literature through the Reader's Workshop.

Honors English 10 **0010**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors/Academic English 9

Dual Enrollment: No Level 4

The course is for college-bound students looking to analyze and evaluate text in all academic areas. The writing in this class mirrors what students may encounter at the college level, ie, annotated bibliography, reflective and exploratory analyses, position papers, as well as APA formatting, which is used for science and business majors. Students demonstrate their understanding and ability to analyze through discussion, writing assignments, speeches, and projects. Students will continue to explore literature through the Reader's Workshop.

Academic English 10 **0011**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic English 9

Dual Enrollment: No Level 3

This course is for college-bound students needing extensive practice in writing, to best prepare for the types of writing required at the college level. Students demonstrate their understanding and ability to analyze through discussion, writing assignments, and projects. Students will continue to explore literature through the Reader's Workshop.

English 10 **0012**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: English 9

Dual Enrollment: No Level 2

The major focus of this course is the development of effective writing skills and the appreciation and analysis of literature. Students will experience both classics of world literature and contemporary pieces. Through reading, writing, speaking, and listening activities, students will develop the critical thinking, creativity, collaboration, and communication skills necessary for college and career readiness. Students will continue to explore literature through the Reader's Workshop.

Honors English 9 **0064**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Teacher Recommendation

Dual Enrollment: No Level 4

Honors English in grade nine provides a review and further instruction in English grammar and usage. Process writing is one basis of study in three modes of writing: narrative-imaginative, persuasive, and informational. Research techniques and documentation of sources are further studies. Students continue to learn/apply the elements of fiction and non-fiction and to analyze literature selections from the English anthology; the drama, Romeo and Juliet; the novel, To Kill a Mockingbird; the works of Robert Frost; the works of Edgar Allan Poe; various short stories; poetry; and at least two additional novels. Students will research, prepare, and present a public speech. Vocabulary development, elements of structural analysis, and word relationships are also studied.

Academic English 9 **0065**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Teacher Recommendation
Dual Enrollment: No Level 3

Academic English in ninth grade provides a review of English grammar and usage. There is a focus on the process of writing through prewriting, writing, and revising assigned topics. Research techniques and documenting of sources are stressed. Students analyze the elements of fiction and non-fiction, along with literature. Literature study includes reading of short stories, poetry, selections from the anthology, Romeo and Juliet, and To Kill a Mockingbird. Students will research and prepare a public speech. Vocabulary development is also stressed.

English 9 **0066**

NCAA Approved: No Year, 1.0 Credit
Dual Enrollment: No Level 2

Students in English 9 continue to develop writing skills learned in grades seven and eight. Students review grammar, usage, sentence structure, paragraph writing, research techniques, and the mechanics of writing. Literature study includes non-fiction selections, poetry selections, Romeo and Juliet, and a novel. Students will acquire skills in application collaborating in small groups for task completion.

Introduction to Public Speaking **0015**

NCAA Approved: Yes Semester, 0.5 Credit
Dual Enrollment: Yes Level 3

This course provides students with an opportunity to present a number of speeches, including persuasive, informative, and entertainment. Students will analyze famous speeches to identify effective rhetorical devices and use these literary devices in original speeches. Additionally, students will use internet databases and other outside sources to research information for original speeches.

Advanced Public Speaking **0024**

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Introduction to Public Speaking
Dual Enrollment: No Level 3

Advanced Speech is a highly participatory class. Students will not only present speeches from the different categories of speech, but will also analyze the role of speech in our modern society. Famous speeches will be analyzed and discussed for form and also for historical and cultural impact. Full text, audio, and video of many significant speeches of the 20th century, along with short audio and video clips illustrating stylist figures of speech will be examined.

Greek Mythology **0017**

NCAA Approved: Yes Semester, 0.5 Credit
Dual Enrollment: No Level 2

This course introduces students to Greek mythology. Students read and discuss stories dealing with the Greek gods (such as Zeus), heroes (such as Hercules), and adventures (such as the Trojan War). Students work on individual and group projects. There are a variety of graded activities including group work, class work, quizzes, tests, and projects.

Comparative Mythology 0033

NCAA Approved: Yes Semester, 0.5 Credit
Dual Enrollment: No Level 3

This course assumes the student has a fundamental background in Greek mythology so as to be able to draw upon that knowledge in making comparisons to the mythologies of other cultures around the world. A heavy emphasis will be placed on Norse mythology before moving on to a more student-centered inquiry approach into mythologies of interest to individual students. Students will conduct research and present findings to the rest of the class. It is strongly suggested that students take Greek Mythology first, but it's not required.

Creative Writing 0035

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

This course is for students who love to write, have a high level of interest for creative writing and are motivated to learn the creative process of writing. Students write short pieces every day while working on longer pieces with deadlines. Students examine, research, and analyze examples of work from creative writers which assist students to develop their own unique writing style. The course covers fiction (short stories), creative nonfiction and poetry.

Introduction to Student Publications 0070

NCAA Approved: No Year, 1.0 Credit
Dual Enrollment: No Level 3

This course will explore the multifaceted world of journalism and prepare students to become contributing staff members of the school newspaper, *Mountain Echo*, and/or the school yearbook, *The Horseshoe*. Students will develop an awareness of journalism's place in the school and the community, examine and write news, features, sports, in-depth, and opinion articles, explore newspaper and yearbook design, examine principles of photography and practice putting them into action, write captions for photographs, and contribute material to the *Horseshoe* and *Mountain Echo* publications.

Newswriting 1 0022

NCAA Approved: No Year, 1.0 Credit Prerequisites: Introduction to Student Publications and/or Teacher Recommendation
Dual Enrollment: No Level 3

Students enrolled in Newswriting I will work on a daily basis to create an online school newspaper, the *Mountain Echo*. Here students begin to cultivate the journalism skills required to create a paper that is informative, relevant, and timely. Students will complete all assigned beats and stories in a timely manner. The staff will work together to insure that *Mountain Echo* is the best publication it can be.

Newswriting 2 **0037**

NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Newswriting 1 and Teacher Recommendation
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Dual Enrollment: No	Level 3	
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Students enrolled in Newswriting II will work on a daily basis to create an online school newspaper, the *Mountain Echo*. Newswriting II students take on leadership roles and more creative responsibilities, molding the *Mountain Echo's* content. Students will complete all assigned beats and stories in a timely manner. The staff will work together to insure that *Mountain Echo* is the best publication it can be. Leadership will be demonstrated throughout the production process.

Newswriting 3 **0038**

NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Newswriting 2 and Teacher Recommendation
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Dual Enrollment: No	Level 3	
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Students enrolled in Newswriting III will work on a daily basis to create an online school newspaper, the *Mountain Echo*. Newswriting III students become leaders, giving direction to the online newspaper. Students will complete all assigned beats and stories in a timely manner. The staff will work together to insure that *Mountain Echo* is the best publication it can be. Leaders will display impeccable journalism ethics and vision.

Yearbook Production 1 **0021**

NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Introduction to Student Publications and/or Teacher Recommendation
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Dual Enrollment: No

Students are members of the *Horseshoe* staff and are solely responsible for the production of the school yearbook. Staff members participate in all aspects of the book's creation, including fundraising, book sales, theme development, layout design, reporting on school events, writing copy/articles, and photography. Class time is used to create the publication, but a commitment of time after school and in the summer is also required to meet publishing deadlines.

Yearbook Production 2 **0068**

NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Yearbook Production 1 and Teacher Recommendation
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Dual Enrollment: No

Students are members of the *Horseshoe* staff and are solely responsible for the production of the school yearbook. Staff members participate in all aspects of the book's creation, including fundraising, book sales, theme development, layout design, reporting on school events, writing copy/articles, and photography. Class time is used to create the publication, but a commitment of time after school and in the summer is also required to meet publishing deadlines. Second-year staff members will take on leadership roles in the classroom, design parent and business ads, mentor younger staff members, and use more advanced journalism skills to write headlines and copy.

Yearbook Production 3**0069**

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Yearbook Production
2 and Teacher Recommendation

Dual Enrollment: No

Students are members of the *Horseshoe* staff and are solely responsible for the production of the school yearbook. Staff members participate in all aspects of the book's creation, including fundraising, book sales, theme development, layout design, reporting on school events, writing copy/articles, and photography. Class time is used to create the publication, but a commitment of time after school and in the summer is also required to meet publishing deadlines. Third-year staff members will write stories using proper journalistic form, write captions using proper yearbook format, take on editor leadership roles, and work closely with the advisors to make content and theme decisions.

Broadcasting 1**0030**

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: Teacher
Recommendation

Dual Enrollment: No

Level 3

This course aims to equip students with the skills necessary to function in a media-oriented society and in the application of a television broadcasting center. The course will provide experiences in television production: in-front and behind the –scenes operations including editing, studio presentation, sound mixing, video graphic design, camera operation, etc.

Broadcasting 2**0031**

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Broadcasting 1 and
Teacher Recommendation

Dual Enrollment: No

Level 3

This course is designed for the student who wants to intensify his or her television production study. In this course, production teams will build upon the skills learned in Broadcasting I to create various video packages related to the students and faculty of both elementary and secondary schools within the Altoona Area School District.

Broadcasting 3**0032**

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Broadcasting 2 and
Teacher Recommendation

Dual Enrollment: No

Level 3

This course is designed for the student who wants to continue with an intensive performance-based learning approach to television production. In this course, production teams will build upon the skills learned in Broadcasting I and Broadcasting II to create various video packages related to the students and faculty of both elementary and secondary schools within the Altoona Area School District. Advanced Broadcasting students may also work together with community-based organizations to produce a variety of programming.

Shakespeare**0014**

NCAA Approved: Yes Semester, 0.5 Credit
Dual Enrollment: No Level 3

The course provides opportunities for any student seriously interested in experiencing an intensive interaction with William Shakespeare's plays. Along with the study of selected comedies, tragedies, histories, and sonnets, students will be encouraged to gain an appreciation for Shakespeare's contributions to the English language and his continuing influence on the culture of today.

Poetry**0039**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No

In this course students will study poetry. Special attention to the poet's technique and structure of poetry will build an appreciation of poetry for students. A writing workshop will be offered for students who wish to focus on writing and revising poetry, as well as for developing an audience for one's works.

Sports in Literature and Media**0073**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

Sports. In what other realm can we experience both the thrill of victory and the agony of defeat (and come away relatively unscathed)? Sports have become a major part of our lives and can be seen in all aspects of our society. This course will examine sports themes expressed in all types of media, including fiction, non-fiction, film, poetry, and even music. Sports themes studied will include the hero, the underdog, rivalries, youth and aging, nationalism, racism, sexism, the role of the individual versus the team, and others. Students will debate controversial issues, learn about legendary games and athletes, and deliver presentations and engage in discussions concerning all things related to the exciting world of sports.

Heroes and Monsters in Literature and Media**0076**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

The Avengers. The X-Men. The Justice League. Each of these groups is comprised of superheroes who work together to defeat supervillains and for the safety and betterment of society. The idea of the hero, however, is not something that arose out of DC Comics or the Marvel Universe. Many of the heroes of today's pop culture are inspired by the tales of bravery and tragedy from the earliest forms of literature. Classic heroes such as Beowulf, Achilles, and Hercules have been fighting against monsters and foes since the beginnings of the oral tradition and the written word. This course will examine the idea of the modern superhero and villain, their depiction in various forms of media, and their connections to the heroes and monsters of old.

Young Adult Literature

0074

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

Students taking this course will read widely and familiarize themselves with the growing body of literature/genres written for and marketed to adolescents including literature that focuses on diverse cultures. As a class, we will read and discuss books related to gender, difference, identity, race and class, dystopian visions, friendship, family dynamics, coming of age, technology, and a range of other social themes. Students will share responsibility for facilitating discussion within the class. Students will compare and contrast various genres of YA lit as well as track archetypes within the genres. Students will also study and analyze craft and structure of contemporary YA authors. Students taking the course will read independently, with partners, and with a small group. This course will be a rigorous and intensive reading elective.

Literature and Psychology

0077

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

This course focuses on the fundamental psychological theories by exploring the relationship between text and reader as well as relationships within the text, with particular emphasis on emotion/affect as well as personality, behavior, and development. Students will use the psychological foundation to further explore and understand not only themselves but those they see around them, including those found in fiction. As a result, students will begin to see how these various theories can be used to read literature and gain a deeper appreciation for the many intersections between literature and psychology with the aim of furthering their understanding of the complex interplay between cultural, social and biological factors that contribute to shaping human personalities, behaviors and plot lines.

Diversity in Literature

0067

NCAA Approved: Yes Semester, 0.5 Credit
Dual Enrollment: No

In this course students will study different cultures and read a variety of multicultural literature. The authors are primarily from African American, Hispanic, Asian American, and Native American backgrounds. Many of us don't come in contact with people from other ethnic groups in meaningful ways. We may go to school with them, but never strike up conversations or build relationships. The activities and literature in this course will give you the opportunity to learn what you otherwise may not know. The characters in these readings raise questions common to all of us: Who am I? How important is my family? How does the outside world influence me?

Modern Film and Culture**0075**

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: Sophomores,
Juniors, & Seniors only

Dual Enrollment: No

Level 3

This course is for any student who has an interest in modern film. The class will consist of viewing modern films as a catalyst to reflect on our society, values, and culture. Students will recognize, analyze, and discuss themes and messages that the films reveal to the viewer. Students will also explore film genres, terminology, and techniques as a method of building critical analysis skills. Please note that some of these films have mature content, violence, and explicit language, and some may be rated R and PG- 13. By signing up for this course, it is understood that parents have indicated that the students are allowed to watch films with this content or ratings. Course content includes a number of films reflective of our modern society. Students will also have some choice in films they view individually or in small groups for class projects.

Intro to Theatre Arts**0018**

NCAA Approved: No

Semester, 0.5 Credit

Dual Enrollment: No

This course will introduce students to the techniques of sensory and emotional response, voice, movement, improvisation, character and script analysis needed for theatrical interpretation. Students will also be briefly introduced to the various technical elements of theatre. Students will develop and understand aspects of theatrical production. They will apply what they learn in the origination and production of classroom exercises and scenes. Students may be expected to participate in several out-of-class projects and to attend and critique out-of-class performances.

Advanced Theatre Arts 1**0019**

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Intro to Theatre Arts

Dual Enrollment: No

This course is for the student who wants to intensify his or her theatre study. Students research, select, and perform challenging monologues, dialogues, multiple-character scenes, and one-act plays for in-class and out-of-class audiences. Advanced Theatre Arts includes a more in-depth study of voice, movement, character interpretation, script and play analysis. Students develop a personal canon through reading significant works by recognized playwrights. They generate original plays, learn and practice directing techniques, and increase their skills in technical theater. Students participate in additional out-of-class school productions, both onstage and backstage. They attend, analyze, and critique theatrical productions and will have the opportunity to work with guest artists skilled in various aspects of theatre.

Studio Theatre**0023**

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Advanced Theatre
Arts 1 or Drama Advisor
Recommendation

Dual Enrollment: No

Students will have the opportunity to not only practice and refine his/her own skills both on stage and technically but also assume the role of student director to stage a production from start to finish. This class will serve as an advanced ensemble of actors that will take turns directing each other in various productions throughout the year that will culminate in public performances. Students may travel to theatre conferences, competitions and festivals and will have at least two performances per year in the AAHS auditorium. Students will participate in out-of-class productions both onstage and backstage. Additionally, they will be encouraged to participate in community and regional theatre, both onstage and backstage. They will have the opportunity to work with professional and guest artists and will graduate with a portfolio suitable for audition.

Introduction to Stagecraft**0078**

NCAA Approved: No

Semester, 0.5 Credit

Dual Enrollment: No

This course will introduce students to the various technical theatre disciplines, including set building, scene painting, prop design, costuming, makeup, lighting, sound, and publicity. Students will also be briefly introduced to acting techniques and dramatic performance. For each technical area, they will learn specific vocabulary and skills as well as the design process for each. Students will then apply what they learn to design for various show scenes.

Set Design**0079**

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: Introduction to
Stagecraft or Teacher
Recommendation

Dual Enrollment: No

This course is for the advanced technical student that would like to further develop skills in set design and construction. Students will learn the design process from start to finish for creating a theatrical set. For each project, they will learn about the historical nuances for a show's setting and develop a variety of skills to create a functional set. These skills may include carpentry, metalworking, painting, and engineering, among others. Students will have the opportunity to participate in projects for the entirety of the semester to learn new skills specific to the needs of an actual show. Students will have the opportunity to design, build, and paint scenery for a show that will be seen by the public in an out-of-class performance.

World Language Courses

French 1 0040

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Minimum of 85% in Academic English or Minimum of 93% in English

Dual Enrollment: No Level 3

Using specific language structures and structural patterns, students use expressions with the present tense; ask questions for general and specific information, describe surroundings, discuss sports, discuss likes and dislikes, school subjects, French cuisine and aspects of French-speaking cultures. The student will develop basic conversational reading, listening, and writing skills that allow for survival in a French-speaking setting and demonstrate an awareness and tolerance of French cultural aspects.

French 2 0041

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Minimum of 80% in French 1

Dual Enrollment: No Level 3

The major focus of the course is to enhance the skills begun in French I as to speaking, writing, reading, and comprehension of spoken French. Emphasis is given to the cultural differences between the U.S.A. and France through discussion, videos, and readings. Students will practice spoken French in class and in the multi-media laboratory.

French 3 0042

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: French 2

Dual Enrollment: No Level 4

Students learn to express themselves in the following areas: pass-times and hobbies, country life, city life, cultural contrasts, holidays, future life, ecological concerns, other cultures, and the world of animals. Students continue to develop speaking, listening, reading, and writing skills.

Advanced Placement French 0043

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: French 3

Dual Enrollment: Yes Level 5

Students enhance the skills taught in French I, II, III, as to speaking, writing, reading, and comprehension of spoken French. The students practice spoken French in the awareness of French culture. Students may opt to take the French Language Advanced Placement Examination in May, which is paid for by the student.

German 1		0050
NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Minimum of 85% in Academic English or Minimum of 93% in English
Dual Enrollment: No	Level 3	

Students will be able to describe daily activities, likes and dislikes, give directions and commands, express themselves in present and future tenses, discuss school and leisure activities, discuss the weather, and ask questions. Students will also be able to follow directions and give logical responses to questions in German. They will also demonstrate an awareness and tolerance of the German culture.

German 2		0051
NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: German 1
Dual Enrollment: No	Level 3	

Students will be able to express themselves not only in the present and future tenses, but also in past tenses. Students will describe daily activities, discuss sport/leisure activities, music, and travel by rail and air, and describe clothing and shopping. Students will also be able to follow directions given in German and give logical responses to questions in German. They will be able to determine major and minor details in reading and continue to expand their knowledge of German culture.

German 3		0052
NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: German 2
Dual Enrollment: No	Level 4	

The major focus of the course is the further development of all skills/structures that students learn in German I and II. Successful students will extend their language skills from novice/beginner status to beginner/intermediate level, so that they can use German in a more independent manner. An increased use of German by the teacher and the students is expected in daily classroom procedures; language usage will not simply be out of a textbook.

Advanced Placement German		0053
NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: German 3
Dual Enrollment: Yes	Level 5	

The major focus of the course is the extended development of all skills/structures/vocabulary to that which young German adults use. Successful students will extend their language skills from the parameters of a text series to many kinds of materials that can be found in German life. Students will also deal with the kinds of activities/depth of materials found on the Advanced Placement Test in German.

Spanish 1 **0060**

NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Minimum of 85% in Academic English or Minimum of 93% in English
Dual Enrollment: No	Level 3	

Using appropriate grammatical structures and vocabulary, students will be able to accomplish a variety of everyday tasks such as introducing themselves to another person, discussing the weather, asking the prices of various items in a store, etc. They will practice identifying the main topic and supporting details of texts and taped conversations related to these same topics. Finally they will also gain awareness of the culture and geography of the countries where Spanish is spoken.

Spanish 2 **0061**

NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Spanish 1
Dual Enrollment: No	Level 3	

The focus of this course is to move the student from the novice level of language ability toward the intermediate levels. There will be increased opportunities to speak Spanish and hear spoken Spanish in class in paired and group activities, with the teacher and classmates in oral responses and conversation and on tape in the classroom or Media Lab. In addition the non-verbal communication skills of reading and writing will be enhanced through practice. The above objective will require the student to review previously presented vocabulary, to acquire new vocabulary from various sources and to review previously presented grammar and syntax and expand and deepen the grammar base.

Spanish 3 **0062**

NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Spanish 2
Dual Enrollment: No	Level 4	

The focus of this course is to move the student from the novice high level of language ability toward the intermediate levels. There will be increased opportunities to speak Spanish and hear spoken Spanish in class in paired and group activities, with the teacher and classmates in oral responses and conversation and on tape in the classroom or Media Lab. In addition the non-verbal communication skills of reading and writing will be enhanced through practice. The above objective will require the student to review previously presented vocabulary, to acquire new vocabulary from various sources and to review previously presented grammar and syntax and expand and deepen the grammar base. In addition to the communication skills, an increased awareness of the history and culture of the Spanish-speaking people is incorporated in this course.

Advanced Placement Spanish **0063**

NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Spanish 3
Dual Enrollment: Yes	Level 5	

The focus of this course is for the student to improve their abilities to carry out spontaneous conversations and dialogue while discussing more abstract concepts such as science and technology, global challenges, and beauty. There will be increased requirements to speak Spanish and hear spoken Spanish in class in paired and group activities, with the teacher and classmates in oral responses, conversations, discussions and debates. Students will complete these tasks through the use of authentic materials such as newspapers, sources from the Internet, literature, and scholarly articles. The students will practice the skills and analysis required to successfully take the AP Spanish Language Exam.

Social Studies Courses

Advanced Placement European History 0102

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors American Studies or AP American History

Dual Enrollment: Yes Level 5

AP European History is a challenging college level course that is structured around the investigation of five course themes and 19 key concepts in four different chronological periods from the Renaissance to the present. Besides covering the relevant historical facts from these areas and linking these facts to the analysis of the themes, the course requires you to master nine historical thinking skills. The course will be taught at a level and rigor equivalent to that required of students in a college freshmen or sophomore Modern European History course. Because this is a college level course, students will be expected to take a large amount of personal responsibility for their mastery of the information. There will be a great deal of outside reading and analysis, synthesis, and evaluation both of the class texts and of primary source documents. Instructional methods and activities will include lecture, class discussion, power points, debates, persuasive writing, individual and group presentations, reflections, guest lectures, document analysis and various forms of creative interpretation of the historical material.

Honors World Studies 0118

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Teacher Recommendation

Dual Enrollment: No Level 4

Students understand the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. This course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence.

Academic World Studies 0106

NCAA Approved: Yes Year, 1.0 Credit

Dual Enrollment: No Level 3

This course will involve a detailed analysis of major historical, political, economic and cultural aspects of the advance of civilizations worldwide. The course traces this advance from the civilizations of Mesopotamia through the imperialistic expansion of the European nations to the twentieth century comparative examination of world civilizations.

World Studies 0107

NCAA Approved: Yes Year, 1.0 Credit

Dual Enrollment: No Level 2

This course is designed to provide the student with an understanding of eight of their world neighbors. The course will present to the student materials associated with the historical, political, economic, and cultural institutions of Africa, China, Japan, India, Latin America, the Middle East, Euro-Asia, and Western Europe.

Advanced Placement American History 0100

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: 93% in Honors Civics
 Dual Enrollment: Yes Level 5

This is a college level history course designed for high achieving high school students. The course will examine all aspects of history including but not limited to political, social, intellectual, technological and economic history of the United States. The course will chronologically address all of the major eras of history from the colonization era to modern American History. Will develop skills to succeed on the National Test in May by ETS.

Honors American Studies 0121

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Teacher
 Recommendation
 Dual Enrollment: No Level 4

The course is offered to the student who wishes to make an analytical survey of American History from 1890 to the present. Materials dealing with the five areas of: America’s development into an industrial giant, America’s development into a world leader, America’s participation in World War I and the New Deal, America’s participation in World War II and the Cold War: and America’s development in the unprecedented period of recent years will be presented. The course will present the concept that America’s history’s first purpose must be to help students understand the essence of democracy and forces that have either promoted or obstructed it in our nation.

Academic American Studies 0103

NCAA Approved: Yes Year, 1.0 Credit
 Dual Enrollment: No Level 3

This course provides students an opportunity to take an analytical study of the history of the U.S. from 1890 to the present. The course will present the concept that American history’s first purpose must be to help students understand the essence of democracy and forces that have either promoted or obstructed it in our country. Students recognize the importance of Pennsylvania as our nation developed into a world power.

American Studies 0104

NCAA Approved: Yes Year, 1.0 Credit
 Dual Enrollment: No Level 2

This course provides the students with an understanding of the major political, social and economic forces that contributed to the development of America during the period from 1890 to the present. This course will highlight the following concepts: 1. Industrialization, 2. Progressivism, 3. Foreign Policy—world leadership, 4. Economic and domestic policy, 5. the New Deal, 6. The cold war, and 7 global issues since the end of the Cold War. Students will also learn accomplishments of Pennsylvania in business and industry.

Honors Civics **0129**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Teacher Recommendation

Dual Enrollment: No Level 4

Students taking Honors Civics deal in-depth with fundamental principles of government and citizenship, and emphasize critical thinking and skill in self-expression. Students taking this course study general concepts that can be used to understand the meaning of American citizenship, the institutions of American government, and the American economic system. The major areas of study include the following: Principles and Documents of Government; Rights and Responsibilities of Citizenship; How Government Works; How International Relationships Function; and The American Economic System.

Academic Civics **0130**

NCAA Approved: Yes Year, 1.0 Credit

Dual Enrollment: No Level 3

The academic civics course will involve students in an in-depth study of the principles of government and citizenship. Students will gain an understanding of the individual functions of the institutions of our US government, our and other economic systems, as well as an understanding of how these institutions work together. The information and knowledge gained will be used to provide a background for students that will enable them to compare our nation's government with that of other nations.

Civics **0131**

NCAA Approved: Yes Year, 1.0 Credit

Dual Enrollment: No Level 2

Citizen responsibility is a cornerstone of this course. Students discuss and study our political and economic system to empower them to understand current events in historical context, make reasoned political decisions, and identify steps to effect political action.

Advanced Placement U.S. Government **0101**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Juniors & Seniors that has taken AP American History or AP European History

Dual Enrollment: No Level 5

This is a college level course that focuses on the six areas of the U.S. Government and Politics the National Exam covers. Units covered will include constitutional underpinnings of the U.S. Government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of the national government, public policy, civil rights and liberties.

Advanced Placement Human Geography 0135

NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Sophomores, Juniors, & Seniors only
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Dual Enrollment: No	Level 5
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This course is an introductory college level course in human geography to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and the alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine the human social organization and its environmental circumstances. The students also learn about the methods and tools geographers use in their science and practice. The fourth marking period will be dedicated to the comprehensive review of all materials covered and test preparations.

Advanced Placement Economics (Micro & Macro) 0125 & 0126

NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Junior or Senior that has taken Honors American Studies/Honors World Studies and AP American History/AP European History
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Dual Enrollment: No	Level 5
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This is a college level course for the year in which Microeconomics and Macroeconomics are integrated into one course. Macroeconomics is designed to give students a framework of understanding of the principles of economics that apply to a market-based economic system as a whole. Microeconomics provides a thorough understanding of the principles of economics that apply to individual decision makers, both consumers and producers, within the economic system.

Academic Economics 0124

NCAA Approved: Yes	Semester, 0.5 Credit	Prerequisites: Junior or Senior who has not completed Economics & Personal Finance
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Dual Enrollment: No	Level 3
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This course is designed as a general introduction to economics as well as providing a foundation for future college level courses. Using a microeconomic view, students will examine the factors influencing individuals and small groups. In addition, utilizing a macroeconomic view, students will assess the impact of government and business on the economy. The course will culminate with a study of household's economics dealing with budgeting, banking, investing, taxes and credit.

Economics and Personal Finance 0122

NCAA Approved: No	Semester, 0.5 Credit	Prerequisites: Junior or Senior who has not completed Academic Economics
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Dual Enrollment: No	Level 2
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This course is designed to introduce students to the basics of our economic system that will impact the consumer's life on a daily basis. Students will explore issues such as: banking, investments, insurance, workplace benefits, real estate, financial planning, credit, household budgeting, etc. Community professionals will be invited to serve as guest speakers on some of the aforementioned issues.

Introduction to Psychology 0136

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Juniors & Seniors only

Dual Enrollment: No Level 3

This course is designed to introduce students to the history of psychology and the basic principles of this science of the mind. Students will learn about the functions of the brain, how humans sense and perceive their environment, and how our memory and cognitive abilities function. Classic schools of psychology will be explored as well as recent studies that shine new light on outdated philosophies. Students will gain an understanding of careers in the field of psychology, they will be introduced to the various ways in which psychology impacts our daily lives, and learn how therapy and modern medicine are being used to treat psychological problems. Finally, students will learn about various abnormal psychological disorders present in our modern society.

Anthropology 0110

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Juniors & Seniors only

Dual Enrollment: No Level 3

This course is designed to present a general introduction to Anthropology as well as provide a foundation for future college level courses. Anthropology, “the study of man”, is divided into two main areas – physical anthropology and cultural anthropology. Physical anthropology explores the origins of people with a strong emphasis on archeology as the basis for such evidence. Cultural anthropology explores the origins and development of cultural traits such as customs, religion, technology, language, etc. Students will develop a better understanding of their own cultural identity as well as cross-cultural comparison.

Sociology 0111

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Juniors & Seniors only

Dual Enrollment: No Level 2

The course is designed to explore social groups and the interaction of people in everyday life. Included will be a study of: 1) social institutions such as the family, education, & religion; 2) the problems of our society such as crime & poverty; 3) cultures & cultural diversity; 4) social norms & values; and 5) social class systems.

Sociology of American Sports 0132

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Freshmen & Sophomores only

Dual Enrollment: No Level 2

This course is designed to explore sports in American society from a historical perspective. Included will be a study of (1) sports in Colonial America; (2) the role of mass sports; (3) Organized youth sports; (4) sports in High school and College; (5) Women in Sports; (6) Race and Sports in American Society; (7) Deviance and Violence in American Sports; (8) The role of mass media; (9) Economics and Sports in America; (10) The future of American Sports.

Teenagers & the Law **0112**

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Freshmen & Sophomores only

Dual Enrollment: No Level 2

This course will introduce students to the basics of the legal system and its impact on their everyday life. Students will explore the structure of the legal system, citizen rights and responsibilities, consumer and family legal issues, and the criminal justice system. Community legal professionals will be invited to serve as guest speakers on various topics.

History of American Popular Culture 1900-1989 **0133**

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Freshmen & Sophomores only

Dual Enrollment: No Level 2

This course explores the origins and cultural meanings of American Popular Culture in the early 20th century and, in particular, the rise of commercial entertainment and consumerism between 1900 and 1989. Students will be introduced to the cultural history of film, radio, education, technology, literature, art, theatre, architecture, fads, fashion, and sports as expressions of identity and community affiliation in a diverse nation. In addition, we will examine how popular culture has affected ideas about gender, race, class, and the nation in the twentieth century.

Global Affairs **0134**

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Freshmen & Sophomores only

Dual Enrollment: No Level 2

Students will use their roles as global citizens to explore topics affecting various areas around the world. Areas of focus will include, but not be limited to: Latin America, Europe, Asia, Russia, Sub-Saharan Africa, and the Middle East. Students will research each region's culture, geography, economic system, and interaction with other international actors, such as NATO, the United Nations, and various non-governmental organizations (NGOs). A strong emphasis will be placed on globalization and its impact on life in the 21st century.

Math Courses

Advanced Placement Calculus 0200

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: 93% in Honors Algebra 3/Trig

Dual Enrollment: Yes Level 5

This is a college level calculus course involving the study of elementary functions, limits, derivatives, integration, and physics-related problems that require calculus to solve. This course is for students who are strong math students willing to learn new & abstract topics that often times require extra effort on their part. Students who are interested in dual enrollment for AP Physics must also have AP Calculus; students may take it concurrently or have already successfully completed it.

Academic Calculus 0201

NCAA Approved: No Year, 1.0 Credit Prerequisites: Honors or Academic Algebra 3/Trigonometry

Dual Enrollment: No Level 3

This is an academic level calculus course involving the study of functions, limits, derivatives, and integration. This course is for academic students who are pursuing a math or science related field.

Honors Algebra 3/Trigonometry with Calculus 0219

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors Geometry

Dual Enrollment: No Level 4

The course will begin with a brief review of the more advanced topics of Algebra 2 and proceed to more advanced algebraic concepts. The remainder of the course will cover trigonometry, as well as, an introduction to calculus. Calculus will also be taught throughout the course so that a calculus approach to many of the algebra and trigonometry problems may be employed.

Academic Algebra 3/Trigonometry 0202

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic Geometry and Academic Algebra 2

Dual Enrollment: No Level 3

This course will begin with a review of the topics from Academic Algebra 2. The course proceeds into the more advanced topics in Algebra, including the study of algebraic and trigonometric functions; the rectangular coordinate system, with graphing techniques applied to linear, absolute value, quadratic, square root, and cubic functions as well as circles; and problems that require the application of each concept studied. Specific topics include: fundamentals of Algebra, linear functions and inequalities, quadratic functions, polynomial and rational functions, radical and inverse functions, exponential and logarithmic functions, right angle trigonometric functions, laws of trigonometry.

Algebra 3 **0203**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Algebra 2
Dual Enrollment: No Level 2

This course reviews and advances concepts taught in Algebra 2. There is an emphasis on the study of basic functions, equations, polynomial and rational expressions, exponential and radical expressions, inequalities, and their graphs in order to prepare the student for standardized testing. Common Core Standards will also be reviewed.

Honors Geometry **0211**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors Algebra 2
Dual Enrollment: No Level 4

Students develop a thorough understanding of plane and solid geometry, be able to reason inductively and deductively in relation to geometry, and have developed the skills to organize and complete a geometric proof.

Academic Geometry **0209**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic Algebra 2
Dual Enrollment: No Level 3

The course will include a detailed study of the topics listed below. There is an emphasis on clarity and precision of language, proof writing, and geometric constructions involving compasses and straightedges. Specific topics include: points, lines, planes, segments and rays, angles and special pairs of angles (complementary, supplementary and vertical), parallel lines and angles of triangles and polygons, Pythagorean Theorem, Pythagorean Triples, and special right triangles, and similarity.

Geometry **0210**

NCAA Approved: No Year, 1.0 Credit Prerequisites: Algebra 1
Dual Enrollment: No Level 2

This course is designed to provide students with the study of basic geometric definitions and terms, geometric constructions. Properties of polygons and parallel lines, congruence, area, the Pythagorean Theorem, volume, similarity, deductive reasoning and geometric proof. Problem-solving with geometric figures is stressed. Students will be expected to participate orally, complete classroom assignments work in groups and complete homework assignments.

Honors Algebra 2 **0204**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors Algebra I
Dual Enrollment: No Level 4

This is an extensive course which includes the study of real and complex numbers, absolute value, factoring polynomials, solving and graphing linear equations and inequalities, systems of equations and inequalities and quadratic equations. Relations and functions, rational expressions, roots and radicals, and rational exponents are also thoroughly studied. Problem solving, higher logical thinking and reasoning are stressed throughout this course. This course is for students who are strong in math and are willing to do more in depth learning that will require some extra effort on the part of the student.

Academic Algebra 2 **0205**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic Algebra 1
Dual Enrollment: No Level 3

Students review and further the topics of Algebra I and are introduced to concepts of Algebra 2; Students focus on linear equations and learn about other types of functions and equations; students prepare for Algebra 3 / Trig classes.

Algebra 2 **0206**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Algebra 1
Dual Enrollment: No Level 2

This course integrates many different types of problem-solving and critical-thinking situations throughout the text. The ability to identify and formulate problems, as well as the ability to propose and evaluate ways to solve them is a top priority of the course. Topics include a study of absolute value, factoring operations with polynomials, graphs of linear equations, and solving linear, quadratic and systems equations.

Academic Algebra 1 **0207**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic PA Core
Math 8
Dual Enrollment: No Level 3

Academic Algebra 1 is a course designed to prepare students for future higher-level math courses and for the Keystone Algebra 1 Exam. Areas of study include operations with real numbers and expressions, linear equations and inequalities, functions, coordinate geometry, and data analysis.

Algebra 1 **0208**

NCAA Approved: Yes Year, 1.0 Credit
Dual Enrollment: No Level 2

Students learn basic algebra concepts including learning to solve systems of equations and inequalities, simplify and evaluate expressions, perform basic real number operations, and factor polynomials.

Introduction to Algebra Concepts **0235**

NCAA Approved: No Year, 1.0 Credit
Dual Enrollment: No Level 2

Introduction to Algebra Concepts is the first of two parts covering Algebra 1 content. Course content includes solving equations and inequalities, linear equations, linear functions, systems of linear equations and functions, piecewise functions, exponent functions, and exponential functions.

Algebra 1 Intervention **0234**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No

Algebra 1 Intervention is a course designed to provide the necessary skills to prepare for the Keystone Exam. Course content includes solving equations and inequalities, linear equations, linear functions, systems of linear equations and functions, piecewise functions, exponents and exponential functions, polynomials and factoring, quadratic functions, solving quadratic equations, working with functions, and statistics.

Science Courses

Advanced Placement Biology 0300

NCAA Approved: Yes Year, 2.0 Credits Prerequisites: Academic/Honors Biology and Academic/Honors Chemistry

Dual Enrollment: Yes Level 5

This is a double period course designed to meet the needs of students who plan to enter college science career fields. This class also meets the needs of a Dual Enrollment course.

Microbiology 0301

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Biology and Chemistry

Dual Enrollment: No Level 3

This course studies those organisms not visible to the human eye and their effects on humans. Students learn proper procedures for handling and identifying microbes. In addition, students will develop a good understanding of how microbes affect our lives in both positive and negative ways. The course is designed for those students going into career fields of microbiology, medical technology, nursing, medicine and any other science related career.

Honors Biology 0328

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors Integrated Science 3 or Academic Integrated Science 3 with Teacher Recommendation

Dual Enrollment: No Level 4

This course is required for Honors grade nine students. The Honors Biology course builds on the Academic Biology course by providing students with additional depth and problem solving experiences. The major areas of emphasis are molecular biology, cellular biology, genetics, structure and function of plants and animals, evolution and ecology. Laboratory work is a vital part of this course. Students are expected to score proficient or advanced on the Keystone Biology Exam. Students should take Honors Biology as a preparation for other high school level science courses and future science-related college programs.

Academic Biology 0329

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic Integrated Science 3 or Integrated Science 3 with Teacher Recommendation

Dual Enrollment: No Level 3

This course is required for academic grade nine students. The major areas of emphasis are molecular biology, cellular biology, genetics, structure and function of plants and animals, evolution, and ecology. Laboratory work is a vital part of this course. The main focus of this course is to prepare for the Keystone Biology Exam on which students are expected to score proficient or advanced. Students should take Academic Biology as a preparation for other Level 3 or Level 4 high school science courses and future science-related college programs.

Biology **0303**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Life Science
Dual Enrollment: No Level 2

This course is an activity based learning experience that covers the characteristics of life, the anatomy of the cell and its processes, biochemistry, genetics, biotechnology, evolution, ecology, and the kingdoms of life.

Life Science **0330**

NCAA Approved: No Year, 1.0 Credit Prerequisites: Integrated Science 3
Dual Enrollment: No Level 1

This course is a hands on approach to many topics in the life sciences. It is required for the study of biology, chemistry, and physics. Life Science encompasses a wide variety of concepts and topics. Some of the topics we will cover follow: The Nature of Science, Characteristics of Life, Cells and Cell Processes, Taxonomy and Kingdoms of Life, Anatomy, Ecology, and Environmental Issues and Impacts, Biochemistry, Genetics, DNA and Biotechnology, and Evolution. This course is oriented toward world of work applications. Laboratory work is a vital part of the course. The expectation is that students will be fully prepared for Biology.

Botany **0307**

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Academic/Honors
Dual Enrollment: No Level 3 Biology

This course is designed as an introductory course in botany, the study of plants. It includes sufficient information for students who will major in science and practical information for all. This course will cover the technical side of botany, dealing with structure and function of plants. The course will allow a hands-on approach to the growing, identifying and caring for plants. Students exit this course with an understanding of how plants are important to human life, knowledge of the anatomical and physiological aspects of plant structures, and the skill to identify, grow and maintain plants.

Zoology **0308**

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Academic/Honors
Dual Enrollment: No Level 3 Biology

In this course, students will study, compare, and work with specimens of the Kingdom Protista and Kingdom Animalia. The students will get an appreciation and a basic understanding of the importance and variety of life in the animal kingdom by studying animals from each of the major animal phyla. They will compare and contrast the variety of form and function of the diverse members of the Animal Kingdom. Laboratory work and dissections will be an integral part of this course.

Academic Anatomy and Physiology 0325

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Academic/Honors Biology and Academic/Honors Chemistry

Dual Enrollment: No Level 3

This course includes a detailed survey of the systems that make up the human body and the functions performed by each system. Students will have an understanding of how each body system works, how all the systems function together, disorders and the effects of one system on another. This involves observing models, doing dissections and using computer simulations. The course uses many lab activities and classroom demonstrations. The goal of this course is to help provide some background and lab skills for those students interested in any area of the medical field, criminal investigations, forensics, and health-related fields.

Anatomy and Physiology 0326

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Biology and Chemistry

Dual Enrollment: No Level 2

This course will survey the systems that make up the human body and how each system carries out its various functions. Lab activities including dissections, computer simulations and models will be used to illustrate structure and function. The goal of this course is to help provide working backgrounds for those students interested in any medical and/or health-related field. The students develop the lab skills and knowledge necessary for entering a health professions program at a college or technical school.

Human Systems and Disease 0332

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Integrated Science 3; Freshmen only

Dual Enrollment: No Level 3

This course examines each organ system, its function and how it is impacted by disease. This course is oriented towards world-of-work applications in health-related fields. Laboratory work will be incorporated into this course. Topics of the course include the human system, structure, function and reaction to disease, the impact of genetic, viral, bacterial and fungal infections on human organ systems, and medicine and technology related to human anatomy, physiology and disease.

Advanced Placement Chemistry 0311

NCAA Approved: Yes Year, 2.0 Credits Prerequisites: Honors Chemistry and Honors Algebra 2

Dual Enrollment: Yes Level 5

Students will analyze and describe chemical behavior and perform complex calculations. Through application of chemical principles, students will demonstrate their own reaction and describe all the changes that occur. Students will have the option to take the Advanced Placement exam.

Honors Chemistry **0312**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic/Honors
Biology and Honors Algebra 2

Dual Enrollment: No Level 4

Honors chemistry is a rigorous course designed for college bound students who are ready for a challenge. It is especially designed for students who are looking for a career in the science, medical, engineering, or related fields. Students will move through the information at an accelerated pace in order to study content more in depth than other first year chemistry courses. Students analyze and interpret diverse information, exhibit problem solving skills and work independently and with a partner in laboratory & classroom settings.

Academic Chemistry **0313**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Academic Biology
and Academic Algebra 2 (currently
taking or successful completion)

Dual Enrollment: No Level 3

This course is intended for college-bound students, especially those thinking of going into science, medical, engineering or related fields. Students study matter, its properties, composition and structure and changes it undergoes. Students develop analysis and problem-solving skills through independent and group assignments. Laboratory activities are an integral part of this course and students must be prepared to work in labs using proper safety techniques. Students analyze and interpret laboratory data and draw conclusions from charts, tables and graphs showing a relationship between data and real life situations.

Chemistry **0314**

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Biology and Algebra
2 (currently taking or successful
completion)

Dual Enrollment: No Level 2

Students will study matter, its physical properties, composition, structure, and the changes it undergoes. Students develop analysis and problem solving skills through independent and group assignments. Laboratory activities are an integral part of this course and the students must be prepared to work in the lab using proper safety techniques. Students conduct labs in a safe manner, collect accurate data and use proper methods to analyze data.

Physical Science C **0334**

NCAA Approved: No Year, 1.0 Credit Prerequisites: Biology
Dual Enrollment: No Level 2

Physical Science C is a course in which students will be introduced to the basic concepts of Chemistry and be expected to work safely in the laboratory environment. Students will be required to collect data and apply this data in order to solve scientific problems. Concepts studied will include matter, its properties, and how it can be changed. Students will also study the elements, their atomic structure, and how they are arranged on the Periodic Table. Finally, students will learn how elements combine, how chemical names and formulas are written, and construct chemical equations to describe reactions.

Forensic Chemistry 0327

NCAA Approved: Yes Semester, 0.5 Credit Prerequisites: Chemistry
Dual Enrollment: No Level 2

This is an activity-based course in which students study the basics of forensic science and apply their knowledge to investigations. Students process evidence and utilize various technologies to solve problems.

Careers in Science 0331

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Integrated Science 3
Dual Enrollment: No Level 2

This course will study career options that will enable students to use their scientific investigation skills and knowledge in this fast paced technological society. We will examine types of science careers available, preparations for these careers, possible job duties, and possible laboratory experiments similar to ones that may be completed on the job.

Advanced Placement Physics 1 0316

NCAA Approved: Yes Semester, 1.0 Credit Prerequisites: Honors Physics and
Dual Enrollment: Yes Level 5 Honors Algebra 3/Trigonometry

This double period semester class is designed to mirror a first semester introductory level college physics class with a laboratory component. Advanced Placement Physics 1 is required to take Advanced Placement Physics 2. Students who are interested in dual enrollment must also have AP Calculus; students may take it concurrently or have already successfully completed it.

Advanced Placement Physics 2 0305

NCAA Approved: Yes Semester, 1.0 Credit Prerequisites: AP Physics 1
Dual Enrollment: Yes Level 5

This double period semester class is designed to mirror a second semester introductory level college physics class with a laboratory component. Students who are interested in dual enrollment must also have AP Calculus; students may take it concurrently or have already successfully completed it.

Honors Physics 0315

NCAA Approved: Yes Year, 1.0 Credit Prerequisites: Honors Chemistry
and Honors Algebra 2
Dual Enrollment: No Level 4

This rigorous introductory physics course is designed for the college bound student who is strong in the sciences and mathematics. Students are also expected to express themselves clearly in writing. This course will include the study of mechanics, thermodynamics and wave phenomena. Physical phenomena will be explored conceptually, mathematically and experimentally. Students also complete hands on projects that require them to apply physics theory to practical situations.

Academic Physics		0317
NCAA Approved: Yes	Year, 1.0 Credit	Prerequisites: Academic Chemistry and Academic Algebra 2
Dual Enrollment: No	Level 3	

The course deals with the study of motion, heat, waves and electricity using both conceptual as well as mathematical analysis.

Physics		0318
NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Chemistry and Algebra 2
Dual Enrollment: No	Level 2	

This course deals with the study of motion, heat, waves and electricity using conceptual analysis.

Physical Science P		0333
NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Biology
Dual Enrollment: No	Level 2	

This course is designed to discuss a broad range of topics as the discipline of physics is explored. Complicated terminology and mathematics are kept to a minimum while practical and conceptual applications are emphasized. The students will explore various physics concepts including, but not limited to, motion, forces, and energy. The students will see how these concepts can be used to explain real world phenomena. The students use the scientific method to investigate their world through various activities. Work will often be completed in cooperative groups.

Physics of Sports		0323
NCAA Approved: Yes	Semester, 0.5 Credit	Prerequisites: Algebra 2, Physics (currently taking or successful completion)
Dual Enrollment: No	Level 2	

This course focuses on the application of basic physics concepts to athletic events. The performance of athletes will be analyzed in order to show how improvements in athletic performance are governed by the laws of nature. Students will gain an understanding of momentum, energy transformations, projectiles and forces as applied to sports. Students will be expected to actively participate in all classroom and laboratory activities.

Engineering Physics		0324
NCAA Approved: Yes	Semester, 0.5 Credit	Prerequisites: Academic/Honors Physics AND Physics Teacher Recommendation.
Dual Enrollment: No	Level 3	

This elective course will introduce students to the fundamental engineering processes, while exploring topics of physics that are not addressed in the first-year course. Branches of physics such as fluid mechanics, electricity and magnetism will be investigated, and then engineering applications of the topics will be explored. Each student will research a branch of engineering and present their findings to the class. This class is appropriate for any student who meets the prerequisites and is considering an engineering, technical, or scientific career.

Academic Astronomy**0321**

NCAA Approved: Yes

Year, 1.0 Credit

Prerequisites: 86% in semester
Astronomy course if taken
previously; grades 10-12

Dual Enrollment: No

Level 3

Academic Astronomy is a year-long course designed for students that are college-bound, or have a deep inherent interest in Astronomy. The following 9 topics are covered: Scale and Sky Movement; Night Sky Orienteering; Origins of Astronomy; Newton & Einstein; Sun/Earth/Moon System; Stars and Galaxies; Our Solar System; History of Space Exploration; Search for Extraterrestrial Life. Students complete group and individual exams for each section, and complete both group and individual Dome Quizzes on the 6 parts of the night sky, as learned on the planetarium dome.

Astronomy**0322**

NCAA Approved: Yes

Semester, 0.5 Credit

Dual Enrollment: No

Level 2

Astronomy is a semester course designed for average students, or those that cannot fit a full year of Academic. The following 5 topics are covered: Scale and Sky Movement; Our Solar System; Stars and Galaxies; The Future of Earth; Search for Extraterrestrial Life. Students complete group and individual exams for each section, and complete both group and individual Dome Quizzes on 5 parts of the night sky, as learned on the planetarium dome.

Business Education & Technology Courses

Emerging Technologies

0350

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: 86% in Algebra 2 and Sophomores, Juniors, & Seniors only

Dual Enrollment: No

Level 3

The course covers the use of computers in many aspects of today's society. Students use sophisticated software to do digital image and sound editing, desktop publishing, Internet research and communications, PowerPoint presentations, and web page design. Software used includes Adobe PhotoShop, InDesign, Illustrator, Audacity, Microsoft Office, and Adobe Dreamweaver. Students utilize digital cameras, scanners, B/W and color printers, and many other types of peripherals. Students develop sophisticated technological skills and use teamwork endeavors to create quality portfolio projects.

Multimedia

0351

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: 86% in Emerging Technologies

Dual Enrollment: No

Level 3

The course is designed to introduce students to the many aspects of multimedia; text, graphics, sound, animations, and video. Students use sophisticated software to create vector graphics, 2D and 3D animations, videos, and interactive web pages. Software used in class includes Google SketchUp, Google Earth, Adobe Illustrator, Flash, Dreamweaver, Premiere as well as several Web 2.0 tools. Students work on interdisciplinary and community projects. Students develop sophisticated technological skills and learn to use teamwork endeavors to create real-world projects.

Management & Marketing

0400

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: Seniors only

Dual Enrollment: No

Level 2

This course exposes students to the many facets of business. Students explore the principles of business ownership, functions of management, budgeting and finance, and marketing through class discussions, guest speakers, case studies, and a virtual business challenge. In addition, students complete a marking period long practical marketing assignment including creating a product, participating in a "trade show," 3D printing, and competing against other student groups. All eligible students take the NOCTI examination. It is recommended (not required) that students join Future Business Leaders of America (FBLA) to maximize their learning experience and gain a competitive edge.

Introduction to Business

0409

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Sophomores, Juniors, & Seniors only

Dual Enrollment: No

Level 2

This course introduces students to business – the operation, management, and the various types. It gives students a vocabulary of business terms, an understanding of what is necessary to manage a successful business, and a discovery of the importance of business in our global economy. Virtual Simulations and the Junior Achievement program will be part of this course. All eligible students take the NOCTI examination.

Accounting 1 **0405**

NCAA Approved: No Year, 1.0 Credit Prerequisites: Sophomores,
Juniors, & Seniors only

Dual Enrollment: Yes Level 2

Students learn about single proprietorship and partnership accounting theories as well as procedures with computer integration. Students complete financial statements of businesses and a business simulation. The business simulation project requires students to run a small partnership for a thirty-day fiscal period. All eligible students will take the NOCTI examination. Any student desiring employment in an entry-level accounting position, attending college in a business related major, or planning on owning his/her own business should consider scheduling this course.

Accounting 2 **0406**

NCAA Approved: No Year, 1.0 Credit Prerequisites: Accounting 1

Dual Enrollment: No Level 3

This course builds on the underlying concepts and principles of accounting attained in Accounting I. Students explore internal control policies and procedures, bank reconciliations and petty cash funds. Students use computerized accounting procedures involving accounting theory relating to payroll, taxes, special journals, inventory, and depreciation for a merchandising business as a corporation. The entire accounting cycle for a sole proprietorship, merchandising business is presented: the point of original entry through the adjustment process, financial statement preparation, and post-closing trial balance preparation. Students first use a manual accounting system, then they use QuickBooks online to expose students to computerized accounting systems. This course introduces accounting for uncollectible accounts receivable, short-term notes receivable, and short-term notes payables. All eligible students take the NOCTI examination.

Career Exploration **0408**

NCAA Approved: No Semester, 0.5 Credit

Dual Enrollment: No Level 2

This course prepares high school students to make informed decisions about their future academic and occupational goals. It focuses on career awareness, personal awareness, and educational awareness as they relate to the process of career choice. Career planning skills and self-assessments inventories help students identify and explore various career options. Job shadowing, mock interviews, and community business presentations will be utilized to help with the career exploration. This course will also include the Choices360 software for development of an electronic student portfolio.

Microsoft Word & PowerPoint **0411**

NCAA Approved: No Semester, 0.5 Credit

Dual Enrollment: No Level 3

Through hands-on computer instruction, students will be introduced to the basic features of Microsoft Office for Windows, which includes Word and PowerPoint. Students create, format, edit, proofread, save, and print or display various types of word processing documents and presentations. All eligible students take the NOCTI examination. Keyboarding ability is not required but will be helpful.

Microsoft Excel & Access 0412

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Sophomores, Juniors, & Seniors only
 Dual Enrollment: No Level 3

Through hands-on computer instruction, students will be introduced to the basic features of Microsoft Office for Windows, which includes Excel and Access. Students create, format, edit, proofread, save, and print or display various types of spreadsheet and database documents. All eligible students take the NOCTI examination. Keyboarding ability is not required but will be helpful.

Business Law & Ethics 0414

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Sophomores, Juniors, & Seniors only
 Dual Enrollment: No Level 2

This course is designed to help students understand their legal obligations and rights as citizens, consumers, and business owners. The course provides an understanding of basic consumer law as it relates to citizens in their daily business relationships and helps them avoid legal difficulties. Topics include criminal and personal injury laws, contract law, and other laws pertaining to business. Students develop an understanding of the differences between criminal law and tort law as well as those laws relating to contracts and other business-related areas. All eligible students take the NOCTI examination.

Personal Finance 0417

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Juniors & Seniors only
 Dual Enrollment: Yes Level 3

The course is designed to introduce the student to the basic principles of personal finance, with an emphasis on effective money management. Students will construct a financial plan, using the following concepts: personal financial statements, time value of money, tax planning, banking and interest rates, credit managements, personal loans, major purchases and insurances, investment strategies, and retirement/estate planning.

Microcomputer Apps 0418

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Sophomores, Juniors, & Seniors only
 Dual Enrollment: Yes Level 3

This hands-on course introduces students to the more popular microcomputer software packages available including Windows, word processing, spreadsheets, and presentations. This course provides students with a working knowledge of these software packages to accomplish the more common tasks. The Microsoft Office Suite, including MS Word, MS Excel and MS PowerPoint, is used. All eligible students take the NOCTI exam.

Engineering Design / Mechanical **0425**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

This course is designed to advance the students' knowledge in technical drawing and the use of computer-aided drafting software. Coursework builds on knowledge from the 9th grade Drafting & Design elective to apply more complex drafting skills. This course will include mechanical drawing, multi-view projection, dimensioning techniques, 2D and 3D modeling. Students utilize the AutoDesk/CAD software as well as traditional board drafting, CNC and 3D printing technologies. Students will also work through reverse engineering, research and design challenges throughout this course. Completion of this course better prepares students to enter a variety of technology or engineering related fields of study.

Engineering Design / Architectural **0426**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

This course is designed to advance student knowledge in the use of sketching and computer-aided drafting software in the design of buildings and houses. Coursework builds on knowledge from the Introduction to Engineering Design (or the 9th grade Drafting & Design elective) to apply more complex design and drafting skills. This course includes the development of a design from Floor plan to 3D Model to physical Architectural Model. Students utilize sketching techniques, AutoDesk/CAD software, CNC and 3D printing technologies. Completion of this course better prepares students to enter a variety of technology or engineering related fields of study.

Robotics Engineering **0427**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 3

This course allows students to explore the world of Robotics, Engineering, and Coding through the VEX Robotic Platform and Microcontrollers. Students are introduced to the fundamentals of robotics (mechanics, electronic circuits, microcontrollers, and Robot C language) with emphasis on solutions to the basic problems in kinematics, dynamics, and the control of robot manipulators. Students are required to build, program, test, troubleshoot, and compete with their user-piloted or autonomous robotic inventions against classmates. This course also serves as an introduction to microcontroller hardware and software, focusing on embedded system control applications. Interconnections of components, peripheral devices, debugging, and input/output techniques.

Advanced / Competitive Robotics Engineering **0429**

NCAA Approved: No Year, 1.0 Credit Prerequisite: 77% in Robotics Engineering
Dual Enrollment: No Level 3

This course is designed to further advance students' knowledge and experience in the design, construction, programming and testing of robots for the purpose of competing in various robotics competitions. Students use a design challenge brief or the game play guidelines and rules for a competitive game to inspire their design of a robot to compete in said competition. Then, they evaluate options and collaborate with classmates to fully develop a robot, run it through testing.

Entrepreneurship and Product Design **0428**

NCAA Approved: No	Semester, 0.5 Credit	Prerequisites: Sophomores, Juniors & Seniors only
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Dual Enrollment: No	Level 3	
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This class provides a personalized project-based opportunity that will teach students the real-world knowledge to succeed in the classroom and life. Students will work in teams to determine a real world problem and invent a product that solves this problem. They will develop their invention into a sellable product working through a 9-step process of Product Design. This 9-step method is based on the steps commonly found in product development. Students gain knowledge and experience in problem solving, innovation, design, fabrication, business, communications, marketing, computer software, and video production. This project teaches students how to take an idea and turn it into a working product sample that could be presented to a corporation or manufacturer. The student owns all rights to their invention and have full discretion with what it becomes.

Coding with Python 1 **0497**

NCAA Approved: No	Semester, 0.5 Credit	Prerequisites: Sophomores, Juniors, & Seniors only
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Dual Enrollment: Yes	Level 3	
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This advanced placement computer course utilizes the Java programming language and is meant to be the equivalent of a first semester college course in Computer Science. The major emphasis is on programming methodology, algorithms, and data structures. At the conclusion of the course in May, students should be prepared to take the examination provided by the College Entrance Examination Board to receive Advanced Placement on their permanent record. All eligible students take the NOCTI examination.

Coding with Python 2 **0431**

NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Coding with Python 1
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Dual Enrollment: No	Level 3	
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This course is built around Carnegie Mellon University's (CMU) Computer Science (CS) Academy's CS2 curriculum is designed for students who have completed the first Python course. The CS2 course is a self-paced course and laid out similarly to the CS1 course. This course builds on CMU CS1 foundation, covering some additional programming and computer science topics (such as sets and maps), and then applying and extending computational problem-solving skills in a variety of application areas. Units will apply computation to such areas as art, science, music, math, data analysis and visualization, simulations, game design, web applications, security, machine learning and artificial intelligence, and more.

Advanced Placement Computer Science with Java **0498**

NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Computer Science with Java and Sophomores, Juniors, & Seniors only
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Dual Enrollment: Yes	Level 5	
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This advanced placement computer course utilizes the Java programming language and is meant to be the equivalent of a first semester college course in Computer Science. The major emphasis is on programming methodology, algorithms, and data structures. At the conclusion of the course in May, students should be prepared to take the examination provided by the College Entrance Examination Board to receive Advanced Placement on their permanent record. All eligible students take the NOCTI examination.

Advanced Placement Computer Science Principles 0432

NCAA Approved: No Year, 1.0 Credit
 Dual Enrollment: No Level 5

This course is designed as an AP level holistic introduction to computer science. Topics covered include the internet's impact on culture, data abstraction, cybersecurity, privacy, programming, and more. Topics will include theory as well as plenty of hands-on exploration. At the end of this course, students will obtain a strong base on which to build further programming courses. Students who take this course will be eligible to take the AP Exam as a culminating activity.

Computer Science with Java 0499

NCAA Approved: No Semester, 0.5 Credit Prerequisites: 86% in Algebra 1 and Sophomores, Juniors, & Seniors only
 Dual Enrollment: No Level 3

This course is a prerequisite for Advanced Placement Computer Science. This course is designed to introduce students to computer programming, where the emphasis is placed on problem solving. This course is designed for those students who plan to enter fields in computing, programming, or engineering. However, anyone who enjoys working with computers, playing video games, and/or solving logical problems and puzzles should enjoy this class. The computer lab will be open for use in the mornings to students who are enrolled in or have completed this course. Upon completion of this course, students understand the basic design and construction of computer programs. They will also be able to apply the fundamental syntax (coding) and structures of the Java language. Most importantly, students develop an understanding for solving logical problems algorithmically. All eligible students take the NOCTI examination.

School to Career/Cooperative Work Experience 0394-0397

NCAA Approved: No Year, 2.0 or 3.0 Credits Prerequisites: Seniors Only; Attendance, grades, discipline, and recommendations are considerations for this course.
 Dual Enrollment: No Level 2

This job experience allows students to explore and experience the real world of work in a variety of job situations. It is recommended that students take computer courses teaching such skills. These skills allow students to offer an employable skill to the employer in order to obtain a job. Students may use this course to fulfill elective requirements. (Students attending the GACTC are not eligible to take this course since they have the opportunity to gain Cooperative Work Experience through their particular CTC program of study.)

Principals of Biomedical Science 0434

NCAA Approved: No Year, 1.0 Credit
 Dual Enrollment: No Level 3

In the introductory course of the Biomedical Science program, students explore concepts of biology and medicine to determine the factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research process while allowing them to design their own experiments to solve problems.

Family & Consumer Sciences Courses

Child Care 1 (Preschool 1) 0500

NCAA Approved: No Year, 1.0 Credit Prerequisites: Sophomores,
Juniors, & Seniors only

Dual Enrollment: No Level 2

A comprehensive study of the basic principles of development of preschool children (ages three years to five years) is made practical while working in a diverse child care center three days a week. Students will plan, organize, participate and observe while in the preschool setting. These experiences will provide necessary skills for any aspect of future interaction with young children. Students meeting the course requirements will receive a Level I certificate. Accumulated average of hours of lab and theory work will be documented for obtaining future employment. All eligible students are required to take the NOCTI examination.

Child Care 2 (Preschool 2) 0501

NCAA Approved: No Year, 1.0 Credit Prerequisites: Child Care 1 and
Teacher Recommendation

Dual Enrollment: No Level 2

This course is designed for the student interested in pursuing a career within the caregiving profession. Students will operate a diverse preschool three days a week, providing work experiences with the three-to-five-year-old child. The student will continue to develop caregiving and job related skills. Career development will be a major aspect of this course. Students meeting the course requirements will receive a Level II certificate, which rates caregiving skills and credits hours of lab and theory work. A shadowing option is available during this school year. The student will, upon completion of this course, exit with a professional resource file. Community service students and School-to-Career students are selected from this course. Hours will be accumulated and documented for obtaining future employment. All eligible students are required to take the NOCTI examination.

Child Care 3 (Infants & Toddlers) 0502

NCAA Approved: No Year, 1.0 Credit Prerequisites: Child Care 1 and
Child Care 2 (currently taking or
successful completion)

Dual Enrollment: No Level 2

This class provides practical experience in the care of infants and toddlers, while working on independent development studies. Lab and theory hours are credited to CDA requirements needed for day care training and certification. All experiences are supervised and provide opportunities for students to understand and develop the skills needed to work with infants and toddlers in many settings. Students are encouraged to complete their CDA ready binders for job readiness. All eligible students are required to take the NOCTI examination. Students wishing to enroll in School-to-Career as a senior, should take Child Care 3 as a junior.

Child Care 4 (Infants & Toddlers/CSA Practicum)		0516
NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Child Care 1, Child Care 2 and Child Care 3 (currently taking or successful completion)
Dual Enrollment: No	Level 2	

Students selecting this course will obtain additional lab hours for CDA-Ready certification. Students will review and revise a professional binder to prove competencies in all eight areas of Child Development Associate (CDA) certification. Students will work with teacher support on their chosen CDA-Ready path/s while preparing their application for CDA certification. Students are eligible to apply for CDA upon graduation and meeting the hours and age requirements while being gainfully employed for at least six months. Students will practice NOCTI and CDA testing in readiness for the professional exams. This course will provide experience hours within the high school and does not require transportation to a job site. All eligible students take the NOCTI examination.

Caregiving Principles		0503
NCAA Approved: No	Semester, 0.5 Credit	Prerequisites: Sophomores, Juniors, & Seniors only
Dual Enrollment: No	Level 2	

This course introduces students to the many facets of caregiving and explores career options. Students will be exposed to ideas, attitudes, and skills that will enhance the quality of caregiving. Students pursuing occupations in child care, elder care, education, medicine, psychology, counseling, or related fields would find this course beneficial. All eligible child care students take the NOCTI examination.

Caregiving Challenges		0504
NCAA Approved: No	Semester, 0.5 Credit	Prerequisites: Sophomores, Juniors, & Seniors only
Dual Enrollment: No	Level 2	

Caregivers often face many challenges while fulfilling their role or job description. This course offers information to enhance the quality of caregiving through stress and crisis management, communication and guidance techniques, the problem solving process, use of community resources, and the basic understanding of human development as strategies for meeting the challenges of caregiving. Students pursuing occupations in child care, elder care, education, medicine, psychology, counseling, or related fields would find this course beneficial. All eligible students take the NOCTI examination.

Child Development		0505
NCAA Approved: No	Semester, 0.5 Credit	Prerequisites: Sophomores, Juniors, & Seniors only
Dual Enrollment: No	Level 2	

Students investigate the reason behind the confusing and curious behavior of the young child, and gain appropriate skills in understanding and guiding healthy development. Students develop an awareness of the long-term ramifications of failing to meet needs during childhood. Any student interested in childcare, education, healthcare, psychology, or related fields would benefit from this course. All eligible students take the NOCTI exam.

Early Development 0506

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Sophomores, Juniors, & Seniors only

Dual Enrollment: No Level 2

This course will introduce students to the influences on human development. Students will witness life before birth and learn the necessary skills for caring for a healthy pregnancy and preparing for a positive birth and bonding experience. All eligible students take the NOCTI examination. Students whose career interest involves child care, education, health care, social work, or related fields would benefit from this class.

Introduction to Family Consumer Sciences 0521

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Freshmen only

Dual Enrollment: No Level 2

Students participate in topics that include human development, foods, nutrition, and the consumer. The students study relationship skills, conflict resolution, family and friendships, and child development. On the foods side, they gain knowledge on dietary guidelines, consumer skills, food preparation techniques, food safety, etiquette & table setting. Students participate in a lab setting to prepare food & create simple meals.

Consumer Strategies 0507

NCAA Approved: No Semester, 0.5 Credit

Dual Enrollment: No Level 2

This course is designed to provide sound understanding of consumer behavior. Time is devoted to proper buying skills, money management, insurance, using advertising, and resource exploration. Special focus is given to basic financial skills and record keeping needed for single people and families. Eligible students take the NOCTI exam.

Specialty Fashions 1 0508

NCAA Approved: No Semester, 0.5 Credit

Dual Enrollment: No Level 2

Want to learn basic hand and sewing machine techniques that can be used for that emergency mending or construction of a one-of-a-kind home project for yourself or others? Use your choice of a home project to show your creative expression with a textile medium and enjoy the results.

Specialty Fashions 2 0523

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Specialty Fashions 1

Dual Enrollment: No Level 2

Building upon the knowledge learned in Specialty Fashions 1, students will advance to creation of a fashion garment that can be worn by the student or others. Using the fashion design world as a reference, a project based on patterns will help guide the each student to the construction of their own unique clothing item.

Lifetime Nutrition **0509**

NCAA Approved: No Semester, 0.5 Credit
 Dual Enrollment: No Level 2

This course is designed to assist the student in selecting healthy food choices for various needs throughout the life cycle. The focus will involve nutritional meal planning, developing kitchen management principles, while utilizing wise consumer skills. Student attendance and input is essential for successful learning, planning and lab production. Eligible students take the NOCTI exam. There is a minimal lab fee charged to the student who takes this course.

Food Challenges **0510**

NCAA Approved: No Semester, 0.5 Credit
 Dual Enrollment: No Level 2

This course is designed to give the student the opportunity to explore the study of foods and nutrition utilizing consumerism, creativity, and experimentation that can be adapted for use in a variety of careers and for all stages in the life cycle. Student attendance and input is essential for successful learning, planning, and lab experimentation. There is a minimal lab fee charged to students who make this course as an elective. All eligible students take the NOCTI examination.

Multicultural Foods **0522**

NCAA Approved: No Semester, 0.5 Credit
 Dual Enrollment: No Level 2

This course is designed to give the students the opportunity to explore and develop an appreciation for the diversity of foods from other cultures. The students will develop an understanding of the origins of traditional foods through culture, geography and history. An emphasis on the cultural diversity of Blair County and the surrounding counties will be made. The students will become familiar with a variety of foods, traditions, and food preparation methods. There is a \$5 lab fee for this course.

School-Age Parenting **0513**

NCAA Approved: No	Year, 1.0 Credit	Prerequisites: Pregnant and parenting teens with Principal's Approval
Dual Enrollment: No	Level 2	

A variety of techniques are used to teach and to practice the skills needed to gain confidence and competence in parenting and caring for young children. Many units of study are independent study and allow for flexibility determined by the children and their needs at any given time. Efforts are made to help parents understand their cognitive abilities, areas of intelligence and their marketable job skills to emphasize their self-worth as responsible adults in a parenting role. All eligible students take the NOCTI examination.

Music Courses

Music Ensemble

0616

NCAA Approved: No Year, 1.0 Credit
Dual Enrollment: No

This class will consist of the Marching/Concert Band (grades 9-12), the Orchestra (grades 10-12), and the Concert Chorus (grades 9-12). Students will be able to participate in one, two, or all three of the ensembles. Rehearsals and performances outside of the school day are required and are part of the class grade. Students will also have the opportunity to participate in County and PMEA Festivals.

Jazz Ensemble

0602

NCAA Approved: No Year, 1.0 Credit Prerequisites: Director Approval (via audition) and be a member of Music Ensemble

Dual Enrollment: No

Mastery of Jazz is required of students who are participating in the Jazz Ensemble. The emphasis is placed on student development of jazz instrumental techniques and improvisation as preparation for public performances. The Jazz Ensemble performs two concerts during the year (holiday and spring) as well as other various public performances established by the Altoona Area High School administration and band director to promote positive relations within our community.

Advanced Jazz Ensemble

0603

NCAA Approved: No Year, 1.0 Credit Prerequisites: Director Approval (via audition) and be a member of Music Ensemble

Dual Enrollment: No

This is a musically challenging course with performance of various styles of literature of grade level 4 and 5. The course presents the advance development of jazz performance technique and improvisation from various musical styles. The Advanced Jazz Ensemble performs two concerts a year (holiday and spring) as well as many various public performances established by the Altoona Area High School administration and band director to promote positive relations within our community.

String Ensemble

0605

NCAA Approved: No Year, 1.0 Credit Prerequisites: Director Approval (via audition) and be a member of Music Ensemble
Dual Enrollment: No

This is a musically challenging course with performance of various styles of literature of grade level 4 and 5. The course presents the advanced development of string technique from various musical styles. The String Ensemble performs 2 concerts per year (holiday and spring) as well as numerous public performances established by the Altoona Area High School administration and the orchestra director to promote positive public relations within our community. This ensemble studies and performs highly advanced literature and it is highly recommended that each student be studying with a private teacher.

Modern Band 0615

NCAA Approved: No Semester, 0.5 Credit
 Dual Enrollment: No

The major emphasis of this course is to develop student achievement through the exploration of a modern band ensemble. The course will introduce the skills necessary to perform on electric guitar, acoustic guitar, electric bass, keyboard, drums and vocals. Many styles of music will be discussed, demonstrated and performed by the students. The course will also foster peer to peer development in the band setting while encouraging each band to perform cohesively as a single unit. Students in Modern Band will also be introduced to transcription of modern rock music. End of term project will culminate with each student having their transcription performed by the ensemble. Attendance at the school performance is mandatory.

Introduction to Guitar Playing 0613

NCAA Approved: No Semester, 0.5 Credit
 Dual Enrollment: No

This course is designed for students who wish to develop basic guitar playing skills. Time in class will be spent both on and off the guitars. While playing, students will be working individually and in small groups to master the techniques of playing and learning songs. There will also be time spent in group instruction on musical notation and theory.

Introduction to Piano Playing 0614

NCAA Approved: No Semester, 0.5 Credit
 Dual Enrollment: No

This course is designed for students who wish to develop basic piano playing skills. Time in class will be spent both on and off the keyboards. While playing, students will be working individually and in small groups to master the techniques of playing and learning songs. There will also be time spent in group instruction on musical notation and theory.

Vocal Ensemble 0606

NCAA Approved: No Year, 1.0 Credit Prerequisites: Choral Director Approval (via audition) and be a member of Music Ensemble

Dual Enrollment: No

This is a performance – oriented ensemble. The purpose is to develop individual vocal skills, musicianship, and prepare programs in the interest of public relations. This ensemble performs two concerts a year: the holiday concert and the spring concert. Attendance is mandatory at all rehearsals and performances both during the day and after school.

Advanced Placement Theory and Harmony 0611

NCAA Approved: No Year, 1.0 Credit Prerequisites: Previous choral or instrumental experience

Dual Enrollment: No Level 5

This course is a college level course. The fundamentals of music are systemically introduced (melody, rhythm, notation, form, chords, etc.). This class is limited to students with previous choral or instrumental experience who wish to further their understanding of the mechanics and development of music. Each student will learn to write and harmonize simple melodies with primary chords. Ear training, dictation, sight singing, and harmony are introduced as an advance study of music construction and form.

Art Courses

Advanced Placement Studio Art

0812

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: 90% in Survey of Art and Teacher Recommendation

Dual Enrollment: No

Level 5

This is a college level course. Advanced Placement Two Dimensional Design is for the highly-motivated student who is seriously interested in the study of art. The course demands significant commitment on behalf of the student artist. There is a focus on three areas: (1) a sense of quality in a student's work; (2) the student's concentration on a particular visual interest or problem; and (3) the student's artworks need to exhibit an extensive range of formal, technical and expressive components. A comprehensive portfolio of the student's work is submitted to the instructor and the Advanced Placement Board for review and final evaluation. A minimum fee will be charged for personal supplies.

Art 1

0800

NCAA Approved: No

Semester, 0.5 Credit

Dual Enrollment: No

This course is designed to give the student a basic introductory background in color and design through drawing and painting activities. The Elements and Principles of Design are emphasized. Pencil, marker and paint are just some of the media to be used throughout the semester.

Art 2

0801

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: 86% in Art 1

Dual Enrollment: No

This course focuses on more advanced art projects than those covered in Art I. Students will be required to develop advanced skills in drawing, painting and design. Included in the areas to be covered are linear perspective, figure/portrait drawing, and painting.

Ceramics 1

0802

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: Art 1

Dual Enrollment: No

This studio course emphasizes the hand building processes. The main topics of interest will include coil, slab, and extrusion methods of construction, incising, piercing, stamping and adding on clay as methods of decoration, and numerous glazing techniques. Ceramic objects are completed, bisque fired, glazed and glaze fired during the course of the semester. A minimum fee will be charged for personal supplies.

Ceramics 2 **0810**

NCAA Approved: No Semester, 0.5 Credit Prerequisites: 86% in Ceramics 1 and Teacher Recommendation

Dual Enrollment: No

This studio is for the student who has excelled at Ceramics I, and wishes to further their ceramic skills by using the potter's wheel. The main topics of concern include the potter's wheel, construction of combined forms, glazing technology, and loading and firing of kilns. The student will also cover basic and advance information associated with the pottery process including terminology, theory, criticism and history of the ceramic form. Enrollment in this course is limited. A minimum fee will be charged for personal supplies.

Sculpture and Three Dimensional Design **0804**

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Art 1

Dual Enrollment: No

The student will create three dimensional forms with materials such as paper, paper mache, paper products, collage materials, model magic, wood, metal wire, foam core, plaster and carving foam. There will be a minimum fee charged for personal supplies.

Survey of Art **0803**

NCAA Approved: No Year, 1.0 Credit Prerequisites: 93% in Art 2 and Teacher Recommendation

Dual Enrollment: No Level 3

Survey of Art is for the highly motivated student who is seriously interested in the study of art. This course is the prerequisite for the Advanced Placement Studio Art course. It may also be scheduled by serious art students who do not want to pursue Advanced Placement Studio Art, but who want to work on an advanced level in a variety of 2D media and techniques: drawing, painting, printmaking, mixed media, and related materials. Students will also analyze the art of various historical and cultural contexts, as well as their own artwork. A minimum fee will be charged for personal supplies.

Painting **0805**

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Art 1

Dual Enrollment: No

Employing a step-by-step approach, the beginning painter will learn brush handling, brush strokes and various acrylic and watercolor painting techniques, as well as color mixing and usage. Landscapes, still-lives, and abstract paintings will be emphasized. Mixed media and experimental painting techniques and ideas will be tried. There may be a minimum fee charged for personal supplies.

Jewelry and Metal Craft**0806**

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: Art 1

Dual Enrollment: No

This course introduces the student to the craft of designing and constructing jewelry and metal crafted objects. Employing a step-by-step approach, the beginning jeweler will learn how to design and fabricate original pieces of jewelry such as pendants, earrings, pins, bracelets, and rings. Casting, copper enameling, glass fusion, glass bead making, the addition of anodized metals to jewelry, roll printing, paper and friendly plastic jewelry, as well shrinkable plastic jewelry are optional techniques and ideas that could be introduced in this course. There will be a minimum fee charged for personal supplies.

Art for Public Places**0807**

NCAA Approved: No

Semester, 0.5 Credit

Prerequisites: 86% in Art 1 and
Teacher Recommendation

Dual Enrollment: No

Level 3

During this course, students will come to realize the value of working cooperatively on a group mural project. Famous public art works from around the globe will form the initial basis of study. Then students will create an individual piece of artwork for a chosen client. In the final project, students will work together to develop concepts and designs for a mural. Students must be willing to work in groups with their peers to develop ideas.

Computer Animation 1**0808**

NCAA Approved: No

Year, 1.0 Credit

Dual Enrollment: No

Level 3

This course introduces students to 2D and 3D animation. The 2D animation portion of the class uses a step-by-step approach to learning the program that leads into creating original animation. The 3D animation portion focuses on modeling in 3D space and leads into basic animation. Students will learn the process of modeling in 3D space while creating clean topology that will allow for smooth animations.

Computer Animation 2**0811**

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Computer Animation
1 and Teacher Recommendation

Dual Enrollment: No

Level 3

This course builds upon the students prior knowledge gained Computer Animation I. Students will focus their work on 3D modeling and animation that could be used on the scoreboard at Mansion Park or on MLTV. The students will be able to create better topology and longer animations with greater and more accurate detail.

NCAA Approved: No

Year, 1.0 Credit

Prerequisites: Computer Animation
1 or Computer Science

Dual Enrollment: No

Level 3

This course introduces students to computer game design, frame based animation, sound effects, program logic, game scripting, and object oriented programming. This course is designed to give students an overview of gaming and game development by working with professional game development framework that provides tools to create games, visualizations and 3D simulations with the focus of “bringing everything together”. This course will also introduce more advanced concepts such as Artificial Intelligence, Interface, and Scripting.

Health & Physical Education Courses

Health Education 0901

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 2

This senior high health course is required for all students to meet the minimum state requirements for graduation. It provides the student with the knowledge and information necessary to maintain physical, mental, and social well-being. A major emphasis is placed on the decision making process and the role that it plays in the development of a healthy lifestyle. Areas of study include: basic health concepts, mental health, teen suicide, stress management, nutrition, human relationships, sexuality, substance abuse, diseases, and first aid.

Physical Education 0902

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No

The major focus of this course provides students the knowledge, information, safety procedures, skills and appreciation to maintain or improve to a higher level of individual fitness through a variety of cardio and strength training exercises.

Adaptive Physical Education 0903

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Referral by School Counselor or Nurse only

Dual Enrollment: No

The adapted physical education program provides students the knowledge, information, safety procedures, skills and appreciation to maintain an appropriate and achievable level of individual fitness through physical activities. The program also develops social skills required to work effectively within a group and for the benefit of the group as a whole

Beginning Swimming 0904

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No

Student learn and work on stroke mechanics, fitness swimming, survival techniques, and lifesaving skills. Students participate in water recreation, water sports, snorkeling, and group activities.

Advanced Swimming 0905

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Proficient in freestyle, sidestroke, & breaststroke; able to swim 500 yards continuously, tread water with no hands for 2 minutes, & recover a 10 pound diving brick in 10 feet of water
Dual Enrollment: No

This course is designed for above average swimmers. Students are in a serious and mature environment and learn skills necessary to save lives. At the end of the course, students will have the opportunity to gain a lifeguard certification. Conditioning, stroke mechanics, lifeguard skills, and CPR skills are studied, with the major focus of preparing students for the Red Cross Lifeguarding Certification. (Note: A \$39.00 fee will be assessed for Lifeguard Certification.)

Dance and Fitness**0906**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No

The units that will be covered in dance and fitness are: fitness, ballet, lyrical, tap, jazz, social dance, and group project. Students learn proper names of ballet and tap dance steps. Students develop proper technique for each type of dance and develop social skills to complete the group activities and project.

Advanced Dance**0907**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No

The units that will be covered in dance and fitness are: fitness, ballet, lyrical, tap, jazz, social dance, and group project. Students learn proper names of ballet and tap dance steps. Students develop proper technique for each type of dance and develop social skills to complete the group activities and project.

Weight Training**0909**

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No

This course increases maximum strength, power, flexibility and mobility in student-athletes. Students engage in high intensity strength training both during their offseason and their competitive season. Students learn safety techniques, weight training principles and concepts to work toward goals. Students perform basic resistance exercises and advanced techniques of weight training.

Strength and Conditioning**0920**

NCAA Approved: No Year, 1.0 Credit Prerequisites: Coaches' Signatures
from 2 Varsity Sports and Teacher Recommendation
Dual Enrollment: No

This course increases maximum strength, power, flexibility and mobility in student-athletes. Students engage in high intensity strength training both during their offseason and their competitive season. Students learn safety techniques, weight training principles and concepts to work toward goals. Students perform basic resistance exercises and advanced techniques of weight training.

Additional Electives

Community Service - Grade 12 0370-0372

NCAA Approved: No Year, 1.0 or 2.0 Credits Prerequisites: Seniors only
Dual Enrollment: No

Attendance, grades, and discipline are considerations for acceptance into this course. This course will give seniors the opportunity to volunteer during the school day in an occupation they are considering for the future or at a site in which they have an interest. The course will give students a real life work experience unable to be gained in the classroom.

Driver's Education 0910

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Juniors and Seniors only
Dual Enrollment: No Level 2

The course consists of two phases. First, the classroom phase, emphasizes mastery of information related to driving a motor vehicle safely, including such basics as the Highway Transportation System, preparing to drive, learning basic maneuvers, making effective driving decisions, understanding the motor vehicle and traffic laws, and learning to cooperate with other highway users. The second phase is optional and includes behind-the-wheel instruction. Students must be 16 years of age with a driver's permit or license. The students will learn safe driving strategies in the behind-the-wheel phase. There will be a fee for the six hours of behind-the-wheel driving.

Improving Test Skills/SAT Preparation 0911

NCAA Approved: No Semester, 0.5 Credit Prerequisites: Juniors who plan to attend a 2 or 4 year college
Dual Enrollment: No Level 3

This course focuses on the knowledge and skills that current research shows are most essential for college and career readiness and success. Students review and practice skills in the three areas assessed on the SAT: Evidence-Based Reading, Writing and Language, and Math. Students are encouraged to take the PSAT in the fall to prepare for spring testing of the SAT.

Personal Choice and Success 0917

NCAA Approved: No Semester, 0.5 Credit
Dual Enrollment: No Level 2

This elective course centers on creating a vision and the impact of personal choice. This course motivates students to set high expectations in life and provide them with the skills necessary to achieve them. It includes setting goals in life and positively impacting others. Students learn a tremendous knowledge about choosing greatness and how personal responsibility relates to success. Students actively participate in a variety of class discussions and projects that explore finding true success in life and making a difference in the lives of others.