DuBois Area High School

Preparing Students for Life…

Every Student ... Every Day!

Course Selection Guide
2019-2020

Mission Statement
"Teaching today's learners to be tomorrow's leaders"

This course guide is designed to give an overview of the courses available at our high school. This course guide, while giving you a summary of available course work, is not intended to be your sole source of information and guidance when planning your high school schedule. It is recommended that you schedule an appointment with your high school counselor to answer any questions you may have and to individualize the program that would best help you realize your career goals and aspirations. You can do this by calling the high school office at 371-8111. You can also visit the school counseling department through our district webpage at www.dasd.k12.pa.us.

DuBois Area School District Board of Directors

Mr. Lee A. Mitchell Region A

Mr. David G. Schwab, Region A

Dr. Albert Varacallo III , Region A

Mr. Gilbert Barker, Region B

Mr. Jeff S. Madinger Sr., Region B

Mr. Larry J. Salone, Region B

Mr. Sam E. Armagost, Region C

Mrs. Patricia A. Fish, Region C

Mr. Mark J. Gilga, Region C

The DuBois Area Schools will not discriminate in its educational programs, activities, or employment practices, based on race, color, national origin, sex, sexual orientation, disability, age, religion, ancestry, union membership, or any other legally protected classification. Announcement of this policy is in accordance with state and federal laws, including Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990.

Persons with an inquiry or complaint of harassment or discrimination, or who need information about accommodations for persons with disabilities, should contact Dr. Luke Lansberry, Title IX coordinator, DuBois Area School District, DuBois, PA 15801-3299, phone (814) 371-2700, or fax (814) 371-2544. The building principal serves as 503/504 coordinator.

DISTRICT ADMINISTRATION

Dr. Luke Lansberry, Superintendent of Schools

Mrs. Wendy Benton, Assistant Superintendent of Schools

Mrs. Anne K. Young, Director of Curriculum, Instruction, and Assessment

Mrs. Barbara Jo Smith, Director of Federal Programs

Mr. Robert Kriner, Special Education Director

High School Principal

Mr. Brian Weible

Dean of Students

Mr. Charles Pasternak

District Resource Staff

Mr. Chuck Ferra, Athletic Director

Mrs. Carla J. Penman, Virtual Academy Program Director

Mr. Randy E. Schmidt, Transportation Director

Contracted Services

Mr. Dennis W. McFadden, School Police Officer

Mr. Andy E. Edinger, Clearfield County Probation Services

Beliefs

All students will demonstrate proficiency of the Pennsylvania Core and Academic Standards through a rigorous and relevant curriculum.

Student achievement is directly related to the quality of instruction provided by the teacher.

The most critical factor impacting student achievement at the building level is the principal's leadership.

Learning will occur in a safe and caring environment.

Assessment is an integral part of the instructional process.

Parents are an essential part of the educational process.

Hello, students, parents and guardians. The 2019-2020 DuBois Area High School course guide reflects changes that have been made to our graduation requirements. These changes have been implemented to allow more opportunity for student choice based on their career or college aspirations.
DuBois Area High School takes pride in our high quality course offerings and exemplary teaching staff.

We currently offer 12 Advanced Placement Classes. These classes include:

A.P. Environmental Science
A.P. Calculus AB
A.P. English Literature & Composition
A.P. English Language & Composition
A.P. Physics 1: Algebra-Based
A.P. Physics 2: Algebra-Based
A.P. United States History
A.P. World History
A.P. Economics (Macro & Micro)
A.P. United States Government and Politics
A.P. European History
A.P. Biology

We currently have dual enrollment agreements with the following colleges:

Indiana University of PA
Clarion University of PA
Lock Haven University of PA
Penn State University
Mt. Aloysius College
Triangle Tech

It is my sincere hope that you find this course guide informative, easy to use and helpful.

Best wishes to all students as you prepare for the 2019-2020 school year.

Brian Weible
High School Principal

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GRADUATION REQUIREMENTS

Overview

Graduation requirements shall include 1.) **course completion** and grades, 2.) completion of a culminating **graduation project** and 3.) results of district and/or Pennsylvania **state assessments**. The local assessments that establish proficiency shall be the successful completion of the district's instructional program that is aligned to academic standards. (Chapter 4 Section 4.24)

Students scheduling for their senior year who score at a proficient or advanced level on the Keystone Exams for Algebra I, Biology, and Literature may be eligible to pursue alternative educational opportunities based on review of their current academic standing and future educational needs. During their senior year students are required to schedule a minimum of four classes each semester.

Class of 2020

English 4 credits
Math 4 credits
Social Studies 3.5
Science 3.5
Physical Education/ Health 2.5
Elective
(Must pass 5 credits of electives)

Class 2021

English 4 credits
Math 4 credits
Social Studies 3.5
Science 3.5
Physical Education/ Health 2.5
Elective
(Must pass 5 credits of electives)

Class of 2022 and beyond

English 4 credits
Math 3.75 credits
Social Studies 3.5
Science 3.5
Physical Education/ Health 2.25
Elective

(Must pass 5.5 credits of electives)

	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
MATH	Algebra 811 Math 812 Math 813	H Geometry Advanced Geometry Algebra I Algebra I Module 1 Foundation of Algebra Math I	H Algebra II Advanced Algebra II Algebra II Algebra I Module 2 Algebra I Module 1 Math II	Honors Pre-Calculus Advanced Math Transition to College Math Academic Geometry Academic Algebra II Algebra I Module 2 Math III	AP Calculus H Calculus Trigonometry Advanced Math Transition to College Math Geometry Math IV Industrial Math Healthcare Math
ELA	English 801 English 802	Honors English 9 Pre-AP Honors English 9 English 9 English 9/Reading-Writing Workshop	Honors English 10 English 10	AP Literature & Composition AP Language & Composition H English 11 English 11	AP Language & Composition AP Literature & Composition H English 12 English 12
SCIENCE	Ecology 830 Science 832 Science 833	Accelerated Biology Earth & Life Science	H Chemistry & H Biology II Academic Biology Intro to Biology	AP Physics I & H Chemistry II H Chemistry I Chemistry I Intro to Chem Tech	AP Physics II AP Physics I H Physics Physics Intro to Conceptual Physics
SOCIAL STUDIES	Social Studies 821 Social Studies 822	World Cultures AP World History	AP US Government & Politics US and PA History	AP US History Economics/Finance	AP Economics AP European US Government & Politics Psychology or Sociology Economics/Finance *Any Sem. History elective **IF** you have taken AP Government & Politics
WELLNESS	891 Phys Ed	Swimming Health	Lifetime Fitness Competitive Sports Weight Training	Lifetime Fitness Competitive Sports Weight Training	Lifetime Fitness Competitive Sports Weight Training

ELECTIVES		Spanish I French I Lifeguarding Music Survey Music Theory Rock Ensemble Guitar I & II Vocal Methods Musical Theater App Accounting I & II Creative Advertising Intro Business Ownership Intro Business Leadership Retail Manag & Marketing Wood Technology I Computer Programing Theater Arts I & II Film as Literature Headlines & News Ancient History & Mythology Astronomy Best Robotics (Fall Only) Game It Stem Lab 3D Dimensional I & II 2D Dimensional I Band and/or Chorus Weight Training Art Metal/Jewelry I & II Competitive Sports Lifetime Fitness	*** Student may take any electives listed in 9th Grade along with the following:** Spanish II French II Yearbook II Engineering Concepts 3D Dimensional Art III 2D Dimensional Art III Wood Technology III Computer Science B Law & Criminal Justice Military History Communication I Speech/ Public Speaking Drama as Literature Creative Writing PSAT/ SAT Prep Wildlife Biology Drivers Education Nutrition Fitness & Exercise Science	*** Student may take any electives listed in 9th Grade and 10th Grade along with the following:** Communications II AP Environmental Science AP Biology Honors Biology II Spanish III French III Yearbook III Psychology Sociology	***Students may take any electives listed in 9th Grade, 10th Grade, 11th Grade, and the following:** Honors Biochemistry Honors Chemistry II Honors Spanish IV Honors French IV Yearbook IV Manufacturing

GRADUATION REQUIREMENTS
PLAN AHEAD SHEET

COURSE	MINIMUM CREDITS	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR	TOTAL
ENGLISH	**4**					
MATH	**3.75**					
SOCIAL STUDIES	**3.5**					
SCIENCE	**3.5**					
PHYSICAL EDUCATION	**2.25**					
HEALTH	**.5**					

ELECTIVE						
ELECTIVE						
ELECTIVE						
ELECTIVE						
ELECTIVE						

The Student Scheduling Process

It is the intention of the DuBois Area High School administration and staff to select an educational program for your child that is tailored to prepare him/her for their post high school plan. This more directed approach to individualized scheduling for your child will help him/her explore their interests and abilities. The high school must have the support of you and your child to ensure a positive educational experience at the DuBois Area High School.

Once the course guide is approved by the school board, the scheduling process will begin by the teachers making recommendations for the four major courses: English, math, science, and social studies. Then the students are required to submit their requested elective courses on Skyward. Once that is completed, the students will meet with their assigned school counselor to discuss the graduation requirements, their post high school plans, and their course selections for next year. At this time, the student may request a change, to major courses if needed. The student will have to fill out form 206.C obtained from their school counselor to have the course changed. This form states the student will be taking a major course against the recommendation of their current teacher. It can be used for either a major course above or below the recommended course level. The form also states the student will not be permitted to leave the course until the end of the first nine-weeks. He/she is expected to seek any needed help during tutoring or after school with the teacher.

Schedule Changes

Students should choose very carefully when scheduling courses. Students are expected to pass ALL selected courses if the course appear on their schedule in August. If a student wishes to request a schedule change prior to the start of the next school year, the deadline for such a request is August 26th. A request for schedule change form needs to be submitted to your School Counselor with a parent signature. In the event a parent feels that a change should be made after this deadline, a conference will be required. If form 206.C was used to schedule the course, the student will remain in the course until the end of the first nine weeks. Schedule changes are only made after the start of the school year if the student is not meeting the graduation requirements, has physician documented health issues, or the teacher makes a recommendation to change a course. If a course fits on your schedule, you are required to take it in regular school. A student may not be changed from a regular education course to a cyber-course without a doctor's note indicating the need for the course to be on cyber. The Principal has the final decision-making authority on all schedule change request.

All Seniors are required to take a minimum of four courses each semester. Students are not permitted to take cyber courses in lieu of their regular courses unless the regular course will not fit into their schedule. Full time cyber students are allowed to take courses during the regular school day only if the course is not offered as a cyber-course.

STUDENT CAREER PORTFOLIO

9TH GRADE:

DRAFT OF COVER LETTER
DRAFT OF RESUME
DRAFT OF LETTER OF APPRECIATION
CAREER UNIT
ARTIFACTS ADDED TO CAREER PORTFOLIO
COMPLETE 1st OF 3 JOB SHADOWS
ATTEND 2 POST-SECONDARY PLANNING EVENTS:
Career Presentation at DAHS, Post-Secondary Visitation at DAHS, Post-Secondary Options Fair at DAHS, Financial Aid Night at DAHS, Post-Secondary Institution visit on your own
Career Cruising Assignment – Learning Styles Inventory
Career Cruising Assignment – Career Selector Exploration
Career Cruising Assignment – Education/School Selector Activity

10TH GRADE:

DRAFT OF COVER LETTER
DRAFT OF RESUME
DRAFT OF LETTER OF APPRECIATION
COMPLETE 2nd OF 3 JOB SHADOWS
ATTEND 2 POST-SECONDARY PLANNING EVENTS
Career Presentation at DAHS, Post-Secondary Visitation at DAHS, Post-Secondary Options Fair at DAHS, Financial Aid Night at DAHS, Post-Secondary Institution visit on your own
Career Cruising Assignment – Matchmaker Assessment
Career Cruising Assignment – 1 Career Planning Activity
Career Cruising Assignment – Education/School Selector Activity

11TH GRADE:

3rd DRAFT OF COVER LETTER
3rd DRAFT OF RESUME
3rd DRAFT OF LETTER OF APPRECIATION
COMPLETE 3rd OF 3 JOB SHADOWS
ATTEND 2 POST-SECONDARY PLANNING EVENTS
Career Presentation at DAHS, Post-Secondary Visitation at DAHS, Post-Secondary Options Fair at DAHS, Financial Aid Night at DAHS, Post-Secondary Institution visit on your own
Career Cruising Assignment – My Skills Assessment and Ability Profiler
Career Cruising Assignment – 1 Career Planning Activity
grade Career Cruising Assignment – Complete Financial Aid Selector
OCCUPATION PROJECT
ARTIFACTS ADDED TO CAREER PORTFOLIO

12TH GRADE:

FINAL DRAFT OF COVER LETTER
FINAL DRAFT OF RESUME
FINAL DRAFT OF LETTER OF APPRECIATION
OBTAIN LETTER OF RECOMMENDATION
COMPLETE FINANCIAL LITERACY CAREER JUSTIFICATION PROJECT
CAREER JUSTIFICATION PROJECT (FINANCIAL LITERACY PROJECT)
6 POST-SECONDARY PLANNING EVENTS
9 CAREER CRUISING ASSIGNMENTS
9TH GRADE CAREER PROJECT
11TH GRADE CAREER PROJECT

Keystone Exams

The Keystone Exams are end-of-course assessments designed to assess proficiency in the subject areas of Algebra 1, Biology, and Literature. Students in the class of 2020 and 2021 who do not meet proficiency in Algebra I, Biology, or Literature on the Keystone Exams are **required** to participate in and complete supplemental instruction prior to re-testing. The type of instruction will be determined by DuBois Area School District. Students in the class of 2022 and beyond must take end-of-course Keystone Exams in Algebra, Literature and Biology. The Pennsylvania Department of Education is creating additional paths to meeting state graduation requirements. As we receive additional information, we will update this course guide.

Advanced Placement Exams (AP)

There are over 30 examinations offered by The College Board in the Advanced Placement (AP) Program. All AP exams, with the exception of Studio Art, contain both multiple-choice questions and free response questions that require essay-writing, problem-solving, and other skills. AP exams are given every year at the Senior High School during two weeks in May. Every exam receives an overall grade on a five-point scale: 5(extremely well-qualified), 4 (well-qualified), 3 (qualified), 2 (possibly qualified), and 1 (no recommendation). Upon student request, grade reports are sent in early July to each student's home address, school, and to his/her college. Many colleges grant credit and/or advanced placement to students whose AP exam grades are considered acceptable. Students are strongly encouraged to take the AP exam at the conclusion of the course. Students who choose to take an AP exam must register to do so and assume the related costs.

PSAT and the National Merit Scholarship

Qualifying Test (NMSQT)

The PSAT is an assessment that is aligned to the redesigned SAT. It measures reading, writing and language, and mathematical abilities important for academic success in college. The test is given annually in October, and may be useful as a practice test for the SAT. The PSAT also serves as the National Merit Scholarship Qualifying Test for juniors in a nationwide competition for recognition, awards, and scholarships. High school juniors take the PSAT/NMSQT in October. Tenth graders may elect to take the test for practice; however, their scores are not applicable to the NMSQT.

SAT

The SAT is an entrance exam used by most colleges and universities. It is typically taken by juniors in the spring and seniors in the fall. It is given at DAHS in December, March and May. Students who choose to take the exam must register to do so and assume the related costs. Registration materials are available at www.collegeboard.org. The test includes four parts: Reading, Writing and Language, Math, and the optional SAT Essay. All Reading Test questions are multiple-choice and based on passages. The test will include informational graphics, such as tables, graphs, and charts, but no math is required. Prior topic-specific knowledge is not tested. The SAT Writing and Language Test asks students to be an editor and improve passages that were written specifically for the test — and that include deliberate errors. The Math Test will focus in depth on the three areas of math that play the biggest role in a wide range of college majors and careers: Heart of Algebra, which focuses on the mastery of linear equations and systems; Problem Solving and Data Analysis, which is about being quantitatively literate; and Passport to Advanced Math, which features questions that require the manipulation of complex equations. The optional SAT Essay is similar to a typical college writing assignment that requires a student to analyze text and explain how the author builds an argument to persuade an audience.

ACT

The ACT measures a student's ability in the subject areas of English, Mathematics, Reading, Science Reasoning, and an optional Writing section. ACT scores are reported on a standard scale that ranges from 1 to 36. The arithmetic average of the scores on the first four tests is the ACT composite score, which is often used as a measure of overall academic ability. Scores are organized into Individual Student Profile Reports, which are sent to the students and to colleges.

The English Test measures students' understanding and use of the basic elements of correct and effective writing in usage/mechanics and rhetorical skills. The Mathematics Test measures students' mathematical reasoning and problem-solving abilities. The Reading Test measures reading comprehension abilities in the following areas: Social Studies, Science, Arts, Literature.
The Science Reasoning Test measures students' critical reasoning and problem-solving skills required in the natural sciences. The Writing Test is an optional essay test that measures writing skills emphasized in high school English classes and in entry level college composition courses. The test consists of one writing prompt that describes two points of view on an issue, and students write a response about their position on the issue. High school seniors who take the ACT for admission purposes should take the test early in their senior year. Juniors are also encouraged to take the test. Students who choose to take the ACT Assessment must register to do so and assume the related costs. Registration materials are available at www.actstudent.org.

Curricular Programs, Opportunities, & Support

Elective Courses

Students are required to take a minimum of 11 credits of elective courses.

LANGUAGE ARTS YEARBOOK I/II AND III/IV COMMUNICATION I/II CREATIVE WRITING SPEECH/PUBLIC SPEAKING DRAMA AS LITERATURE FILM AS LITERATURE PSAT/SAT PREP	**FOREIGN LANGUAGE** SPANISH I, II, III, & IV FRENCH I, II, III, & IV
SCIENCE HONORS CHEMISTRY II ASTRONOMY ENGINEERING CONCEPTS BEST ROBOTICS HONORS BIOCHEMISTRY HONORS BIOLOGY II STEM LAB WILDLIFE BIOLOGY	**BUSINESS** ACCOUNTING I ACCOUNTING II CREATIVE ADVERTISING INTRO TO BUSINESS AND LEADERSHIP INTRO TO BUSINESS OWNERSHIP RETAIL MANAGEMENT & MARKETING
TECHNOLOGY WOOD TECH I, II, & III MANUFACTURING COMPUTER PROGRAMMING	**WELLNESS** LIFEGUARDING NUTRITION WEIGHT TRAINING & CONDITIONING

GAME IT COMPUTER SCIENCE B	DRIVER'S EDUCATION THEORY (IN CLASS ONLY) FITNESS & EXERCISE SCIENCE
ADVANCED PLACEMENT WORLD HISTORY UNITED STATES HISTORY EUROPEAN HISTORY ECONOMICS (MACRO & MICRO) PHYSICS I ENVIRONMENTAL SCIENCE PHYSICS II BIOLOGY CALCULUS AB ENGLISH LITERATURE & COMPOSITION ENGLISH LANGUAGE & COMPOSITION	**VISUAL AND PERFORMING ARTS** 2D DESIGN I, II, III, & IV THEATER ARTS I & II 3D DESIGN I, II, III, & IV MUSIC THEORY BAND CONCERT CHOIR MUSIC SURVEY VOCAL METHODS MUSICAL THEATER APPRECIATION ROCK ENSEMBLE INSTRUMENTAL MUSIC TECHNIQUES GUITAR I & II ART METALS JEWELRY
ONLINE ELECTIVE COURSES INTRODUCTION OF MUSIC HISTORY INTRODUCTION TO ART HISTORY AND APPRECIATION BRITISH LITERATURE CIVIL WAR	

Curricular Programs, Opportunities, & Support

COLLEGE BOARD Advanced Placement Courses

Students who chose to take College Board Advanced Placement (AP) courses may take them in lieu of core courses in English, Mathematics, Science and Social Studies. ***College Equivalent courses, including AP courses, have the final grade weighted at 1.2. These numbers are used for ranking purposes only. Additional information about grading is included in this course guide.***

College Board courses follow the curriculum recommended by Educational Testing Services, Princeton, New Jersey. DuBois Area School District AP courses are recognized by College Board and are listed in the College Board Directory of college level programs. In order to earn college credit, one must receive a grade accepted by the college of his/her choice on the advanced placement test for that course. For detailed course descriptions, students may go online to www.apcentral.collegeboard.org or contact the college to which he/she plans to attend. Upon completion of an AP course, the district will provide actual cost reimbursement for students who obtain a score of 5, 4, or 3 for each appropriate AP exam that the student elects to take; contingent upon the student paying the initial cost of the appropriate AP exam.

College Equivalent "DUAL ENROLLMENT" Courses

A proficient or advanced high school senior may enroll in post-secondary courses in lieu of, or in addition to, those courses selected at DuBois Area High School. Students may also take college courses during their junior year but may not request to use these courses in lieu of a graduation requirement. Students may take *college equivalent courses* at Penn State DuBois, Clarion University, IUP, Lock Haven-Clearfield, and Triangle Tech. ***College Equivalent courses have the final grade weighted at 1.2. These numbers are used for ranking purposes only. Additional information about grading is included in this course guide.***

Honors Courses

Selected courses across the curriculum have been designated as honors. The student who selects an honors course should be academically talented, highly motivated, and have advanced skills particular to the selected honors course. To enroll in an honors, course, several criteria will be considered. They include the recommendation of a content area teacher, an A or B average in the prerequisite course(s) and/or show performance at or near an advanced level on various assessments. These assessments would include: content specific skills tests; Keystone Exams and/or Preliminary College Board Exams.

Honors courses are weighted at 1.1. These numbers are used for ranking purposes only. Additional information about grading is included in this course guide.

Honors Courses Include:

Honors English 9	Honors English 10	Honors English 11
Honors English 12	Honors French IV	Honors Spanish IV
Honors Pre-Calculus	Honors Calculus	Honors Algebra II
Honors Geometry	Honors Physics	Honors Biochemistry
Honors Chemistry I& II	Honors Anatomy and Physiology/Molecular Biology	

Jefferson County-DuBois Area Vocational-Technical School

Students in the DuBois Area School District have the opportunity to attend Jefferson County-DuBois Area Vocational-Technical School in Reynoldsville following the successful completion of eighth grade. Each student wishing to attend Jeff Tech should plan to consult with a school guidance counselor to arrange for the Jeff Tech placement that is best for him/her. Additional information about Jeff Tech appears on pages 44-46.

Career and Technical Career Electives Include:

Auto Body/Collision Repair Technology	Cosmetology
Machine Shop	Auto CAD (Drafting)
Auto Mechanics	Digital Media Technology
Food Service/Culinary Arts	Building Trades
Health Assisting	Computer Network Engineering
HVAC/Plumbing	Computer Technology
Welding/Metal Fabrication Technology	

DuBois Area School District Virtual Academy

The DuBois Area Virtual Academy is a unique "virtual school within a school" program. This academy provides many educational opportunities for DuBois Area High School students. Students

may be enrolled full-time or part-time for online classes. It combines technology with online courses that are available to our students to take during academic tutoring time or at home.

Online course opportunities are available for most academic courses. Students can make up courses they have failed through credit recovery and get extra help with difficult courses through credit intervention. Students may also schedule required courses to fulfill graduation requirements. The curriculum for these courses is aligned to courses offered at the DuBois Area High School through the use of PLATO Learning Systems, Compass Learning, and Google Classroom. Applications for the DuBois Area Virtual Academy can be obtained through the high school counseling department.

SCHOOL COUNSELING DEPARTMENT

SCHOOL COUNSELORS:

MRS. NANCY CHELGREN
MRS. ELIZABETH DRAHUSHAK
MRS. DEIDRE MINNS
MR. DAVID VOLPE

STUDENTS AT DAHS ARE PROVIDED WITH ACADEMIC COUNSELING, CAREER DEVELOPMENT, AND PERSONAL/SOCIAL SERVICES THROUGH THE SCHOOL COUNSELING DEPARTMENT, WHICH IS STAFFED BY FOUR HIGHLY-QUALIFIED COUNSELORS.

A SAMPLING OF SCHOOL COUNSELOR SERVICES INCLUDE:
ACADEMIC SCHEDULING, ADVISEMENT, COUNSELING, AND TUTORING OPTIONS
DUAL ENROLLMENT
CAREER GUIDANCE AND INFORMATION; COLLEGE AND CAREER FAIR TRIPS
COLLEGE APPLICATIONS, FINANCIAL AID NIGHT AND INFORMATION
POST-SECONDARY AND MILITARY REPRESENTATIVE PRESENTATIONS
INFORMATION ON SAT & ACT TESTING
JOB SHADOWING & COLLEGE VISITS
LOCAL AND NATIONAL SCHOLARSHIP INFORMATION & APPLICATIONS

GRADUATION PROJECT ADVISEMENT
JEFF TECH ENROLLMENT
WORK RELEASE SCHEDULING
CYBER SCHOOL SERVICES (CREDIT INTERVENTION, RECOVERY, FULL-TIME CYBER)
INDIVIDUAL COUNSELING & FAMILY INTERVENTIONS
CRISIS INTERVENTION & REFERRALS TO COMMUNITY SERVICES
STUDENT ASSISTANCE PROGRAM; PEER MEDIATION SERVICES
NEW STUDENT ORIENTATION
ENROLLMENT/WITHDRAWAL
HOMEBOUND INSTRUCTION ARRANGEMENT
PARENT/TEACHER CONFERENCES
STUDENT ATTENDANCE IMPROVEMENT PLANNING
CONCUSSION DATA COLLECTION AND REPORTING
CLASSROOM ORIENTATIONS AND PARENT NIGHTS
TESTING: PSAT, KEYSTONE EXAMS, ASVAB, ADVANCED PLACEMENT
SUMMER OPPORTUNITIES: CAMPS, SCHOOLS, CONFERENCES

PLEASE VISIT THE SCHOOL COUNSELING DEPARTMENT THROUGH THE DISTRICT WEBPAGE AT WWW.DASD.K12.PA.US. SELECT "OUR SCHOOLS", "DUBOIS AREA HIGH SCHOOL", UNDER PROGRAMS", "GUIDANCE".

CAREER CLUSTERS

Agriculture, Food & Natural Resources - The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources.

College Majors: Agricultural Economics, Agricultural Animal Breeding, Environmental Studies, Food Science, Forestry, Landscaping and Grounds keeping, Natural Resources/Conservation, Parks Recreation and Leisure, Soil Sciences, Water Quality and Wastewater Treatment Management

Headlines & News	Wildlife Biology
AP Environmental Science	Spanish I
Spanish II	Spanish III
Spanish IV	French I
French II	French III

Arts, Audio/Video Tech & Communications - Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

College Majors: Acting, Art History, Commercial & Advertising Art, Communication, Computer Graphics, Digital Communication & Media, Fashion Design, Interior Design, Journalism, Music, Photography, Publishing, Sculpture, Sports Communication, Theater

2-D Design I, II, III, & IV
3-D Design I, II, III, 7 IV
Theater Arts I & II
Guitar I & II
Music Theory
Music Survey
Vocal Methods
Rock Ensemble
Music History
Musical Theater Appreciation
Film as Literature
Drama as Literature
Speech/Public Speaking
Communications I & II
Yearbook I, II, III, & IV
Spanish I, II, III, & IV
French I, II, III, & IV

CAREER CLUSTERS CONT'D

Business Managements & Administration, Finance, Marketing, Hospitality & Tourism - Careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations

College Majors: Accounting, Advertising, Baking & Pastry Chef, Business Administration, Credit Management, Culinary Arts Chef, Finance, Hospitality Administration Management, Human Resources, Insurance, International Finances, Investments and Securities, Management Science, Outdoor Education, Public Relations, Real Estate, Resort Management, Restaurant Food Service, Tourism and Travel Services Management

Accounting I
Accounting II
Retail Management and Marketing
Speech/Public Speaking
Spanish I, II, III, & IV
Honors Calculus
Statistics & Probability I & II
Intro to Business and Leadership
Intro to Business Ownership
Communication I & II
Headlines and News
French I, II, III, & IV
AP Calculus AB
AP Economics

Education & Training/ Human Services -Planning, Managing, and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services

College Majors: Adult Development and Aging, Barber, Cosmetology, Elementary Education, Family and Community Services, Funeral Directors/ Services, Marriage and Family Therapy, Mental Health Counseling, School Counseling, Social Work, Special Education, Speech Teacher, Sport and Fitness Administration, Trade and Industrial Teacher

Headlines & News
Statistics & Probability
Creative Writing
Communications I & II
Sociology
French I, II, III, & IV
Lifeguarding
SAT Prep
Psychology
Speech/Public Speaking
Spanish I, II, III, & IV

CAREER CLUSTERS CONT'D

Government, Public Administration/ Law, Public Safety Corrections & Security- Planning and executing government functions at the local, state, federal levels, including governance, national security, foreign services, planning, revenue and taxation and regulations.

College Majors: Corrections, Court Reporting, Criminology, Crisis/Emergency/Disaster Management, Fire Protection, Forensic Science, Homeland Security, Law, Law Enforcement, Legal Assistant/Paralegal, Military Studies, National Security Policy Studies, Political Science and Government, Protective Services Operation Public Policy Analysis, Weapons of Mass Destruction

Military History
Statistics & Probability I & II
Creative Writing
Sociology
Accounting II
Communications I & II
Headlines and News
French I, II, III, & IV
Civil War
AP Economics
Psychology
Accounting I
Intro to Business and Leadership
Speech/Public Speaking
Spanish I, II, III, & IV

Health Science -Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development

College Majors: Alternative & Complementary Medicine, Anesthesiologist, Art Therapy, Athletic Trainer, Chiropractic, Clinical Psychology, Critical Care Nursing, Dental Hygiene, Genetic Counselor, Health Services Administration, Massage Therapy, Music Therapy, Nurse, Occupational Therapist, Optometry, Pharmacy, Physical Therapist, Radiologist, Respiratory Therapist, Speech-Language Pathologist, Veterinary Medicine

Honors Calculus	**AP Calculus AB**
Statistics & Probability	**AP Physics I & II**
Honors Biochemistry	**Honors Physics**
Chemistry I	**Honors Chemistry II**
Physics	**Communications I & II**
Speech/Public Speaking	**Sociology**
Psychology	**Headlines and News**
Weight Training	**Lifeguarding**

CAREER CLUSTERS CONT'D

Manufacturing, Construction, Transportation Distribution & Logistics -

The planning management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance

College Majors: Air Traffic Controller, Building Construction Technology, CAD/CADD Carpentry, Construction Electrical & Electronics Engineering Technologies, Engineering, Furniture Design & Manufacturing, Heating, Air Conditioning and Refrigeration Engineering, Masonry, Metal Fabrication, Nuclear Power Technicians, Plastics Engineer, Quality Control Technician, Solar Energy Technology, Surveying Engineering, Textile Science, Welding, Well Drilling, Wood Worker

Manufacturing	**Wood Tech I, II, & III**
Drivers Education	**Statistics & Probability**
Accounting I	**Accounting II**
Intro to Business and Leadership	**Communication I & II**
Speech/Public Speaking	**Headlines and News**
AP Economics	**Spanish I, II, III, & IV**
French I, II, III, & IV	

Science Technology Engineering Math & Architecture-Planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development

College Majors: Anthropology, Archeology, Astronomy, Biochemical Engineering, Biomedical Sciences, Chemical Engineering, Civil Engineering, Ecology, Engineering, Environmental Chemistry, Genetics, Materials Engineering, Natural Sciences, Neuroscience, Nutrition Science s, Pharmacology, Transportation & Highway Engineering, Wildlife Biology, Zoology

Honors Calculus	**AP Calculus AB**
Trigonometry	**Advanced Math**
Statistics & Probability I &II	**AP Economics**
Accounting I	**Accounting II**
Headlines & News	**Speech/Public Speaking**
STEM Lab	**Intro to Business & Leadership**
Engineering Concepts	**AP Physics I & II**
Communications I & II	**Spanish I, II, III, & IV**
Astronomy	**French I, II, III, & IV**
Computer Programming	**AP Environmental Science**
Honors Biochemistry	

LIBRARY MEDIA DEPARTMENT

LIBRARIAN

MRS. MEGAN LATTIMER

LIBRARY MEDIA RESEARCH SKILLS IN PRINT RESOURCES, ONLINE RESOURCES, DATABASES, AND EBOOKS ARE INTEGRATED THROUGHOUT ALL THE CURRICULAR AREAS. WITH THE SUPPORT OF THE SCHOOL LIBRARIAN, TEACHERS AND STUDENTS HAVE OPEN ACCESS TO ALL LIBRARY RESOURCES INCLUDING POWER LIBRARY: PENNSYLVANIA'S ELECTRONIC LIBRARY. STUDENTS AND TEACHERS MAY ALSO BORROW FICTION AND NONFICTION BOOKS TO READ FOR A CLASS PROJECT OR FOR RECREATIONAL READING.

NCAA GUIDELINES

NCAA Eligibility Center

ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at **eligibilitycenter.org**. If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page at **eligibilitycenter.org**.

ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA, and earn an ACT or SAT score that matches your core-course GPA.

CORE COURSES

Visit **eligibilitycenter.org/courselist** for a full list of your high school's approved core courses.
Complete 16 core courses in the following areas:

DIVISION I

Complete 10 NCAA core courses, including seven in English, math or natural/physical science, before your seventh semester.

ENGLISH	NATURAL/ PHYSICAL SCIENCE (including one year of lab science, if offered)	MATH (Algebra I or higher)	SOCIAL SCIENCE	ADDITIONAL (English, math or natural/physical science)	ADDITIONAL (English, math, natural/physical science, social science, foreign language, comparative religion or philosophy)
4 years	2 years	3 years	2 years	1 year	4 years

DIVISION II

ENGLISH	NATURAL/ PHYSICAL SCIENCE (including one year of lab science, if offered)	MATH (Algebra I or higher)	SOCIAL SCIENCE	ADDITIONAL (English, math or natural/physical science)	ADDITIONAL (English, math, natural/physical science, social science, foreign language, comparative religion or philosophy)
3 years	2 years	2 years	2 years	3 years	4 years

GRADE-POINT AVERAGE

The NCAA Eligibility Center calculates your grade-point average (GPA) based on the grades you earn in NCAA-approved core courses.

- DI requires a minimum 2.3 GPA
- DII requires a minimum 2.2 GPA

SLIDING SCALE

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about sliding scales at **ncaa.org/playcollegesports**.

TEST SCORES

Take the ACT or SAT as many times as you want before you enroll full time in college, but remember to list the NCAA Eligibility Center (code **9999**) as a score recipient whenever you register to take a test. If you take a test more than once, send us all your scores and we will choose the best scores from each test section to create your sum score. We accept official scores only from the ACT or SAT, and won't use scores shown on your high school transcript. Remember to apply the College Board concordance table for SAT tests taken in March 2016 and after.

ENGLISH LANGUAGE ARTS DEPARTMENT

FACULTY

Ms. Lauren McLaughlin	Mr. Chris Taylor	Ms. Linda Rankus
Mrs. Dorothea Hackett*	Ms. Amy Johnston	Mr. Beau Bash
Mrs. Heidi Shindledecker	Mrs. Mandi Bell	Mrs. Danna Granville

* department chair

Honors English 9 Pre-AP	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9	Special Notes: Weighted at a 1.1
Prerequisites: **Successful completion of English 801**	
Course Summary: This full-year course is designed for the exceptional ninth grade student who plans to enroll in AP Language, AP Literature, and/or dual enrollment English courses during their junior and/or senior years. Students in this course must demonstrate consistent exemplary academic achievement in the areas of reading, writing, speaking and listening throughout middle school. This achievement would be demonstrated by scores at an advanced level on assessments such as Study Island test scores and the PSSA reading and writing tests, as well as classroom performance. Students will also earn a minimum score of 60 on the course criteria checklist that will be completed by their eighth grade team teachers. The student in this class will work at an advanced and independent level with all elements of the writing process; the production of final works will include the use of technology, composition style, and the basics of rhetoric. Extensive independent reading with poetry, novels, fiction and nonfiction will be the basis for composition, oral presentations, vocabulary development and research. Some reading will be required during the summer, modeled after the AP Literature course criteria. Students qualifying for this class are expected to be self-motivated, responsible and independent learners with a serious interest and aptitude for English/Language Arts.	

Honors English 9	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9	Special Notes: Weighted at a 1.1
Prerequisites: **Successful completion of English 801**	
Course Summary: This full-year course is designed for the highly motivated ninth grade student who has demonstrated consistent advanced academic achievement in the areas of reading, writing, speaking and listening throughout middle school. This achievement would be demonstrated by scores at an advanced level on assessments such as diagnostic test scores and the PSSA reading and writing tests, as well as classroom performance. Students will also earn a minimum score of 56 on the course criteria checklist that will be completed by their eighth grade team teachers. The student in this class will work at an advanced level with all elements of the writing process, including technology in the production of final works. Extensive reading with poetry, novels, fiction and nonfiction will be the basis for composition, oral presentations, vocabulary development and research. Students qualifying for this class are expected to be responsible and independent learners.	

ENGLISH LANGUAGE ARTS DEPARTMENT CONT'D

Academic English 9	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9	Special Notes:
Prerequisites: **Successful completion of English 802**	
Course Summary: This full-year course is designed for the ninth grade student who has demonstrated consistent academic achievement at a proficient level in the areas of reading, writing, speaking, and listening throughout middle school. This achievement would be demonstrated by scores at a proficient level on assessments such as diagnostic test scores and the PSSA reading and writing tests, as well as classroom performance. The student in this class will work with all elements of the writing process, including technology in the production of final works. Extensive reading with poetry, novels, fiction and nonfiction will be the basis for composition, oral presentations, vocabulary development and research. Students in this class will work under teacher direction to gain the skills necessary to move from a proficient level towards an advanced level with most language arts skills.	

Academic English 9/Reading-Writing Workshop	
Course Term: Full Year	Course Credit: 2
Permitted Grades: 9	Special Notes:
Prerequisites: **Successful completion English 803**	
Course Summary: This full-year two credit course is designed for the ninth grade student who is in need of additional support to reach proficiency in reading and writing skills. Placement in this course will be based on Study Island test scores, PSSA Reading and Writing tests, Lexile levels, as well as classroom performance. The student in this class will work with all elements of the writing process, including technology in the production of final works. Reading selections will serve as the basis for composition, oral presentations, vocabulary development, and research. Based on student achievement and pacing, students will also read novels, poetry, fiction and nonfiction that are part of the traditional ninth grade curriculum. Students in this class will work under teacher direction to gain the skills necessary to become more proficient in reading and writing as well as to monitor their own progress toward proficiency.	

Honors English 10	
Course Term: Full Year	Course Credit
Permitted Grades: 10	Special Notes: Weighted at a 1.1
Prerequisites: **Successful completion of Honors English 9 or a recommendation from an English 9 teacher**	
Course Summary: This course is designed for the highly motivated tenth grade student who has demonstrated consistent advanced academic achievement in the areas of reading, writing, speaking, and listening as a ninth grader. This achievement would be demonstrated by successful grades in English and/or scores at an advanced level on assessments. The student in this class will work at an advanced level with all elements of the writing process. Technology will be used in the production of final works. Extensive reading in various genres such as novels, short stories, plays, poetry, and nonfiction will be the basis for composition, oral presentations, vocabulary development, and research. Students qualifying for this class are expected to be responsible and independent learners. Students in this course will take the Keystone Literature Exam.	

ENGLISH LANGUAGE ARTS DEPARTMENT CONT'D

Academic English 10	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10	Special Notes:
Prerequisites: **Successful completion of English 9**	
Course Summary: This course is designed for the tenth grade student who has demonstrated the potential for consistent academic achievement at a proficient level in the areas of reading, writing, speaking, and listening as a ninth grader. The student in this class will work with all elements of the writing process. Technology will be used in the production of final works. Extensive reading in various genres such as novels, short stories, plays, poetry, and nonfiction will be the basis for composition, oral presentations, vocabulary development and research. Students in this course will take the Keystone Literature Exam.	

Honors English 11	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th	Special Notes: Weighted at a 1.1
Prerequisites: **Successful completion of Honors English 10 or a teacher's recommendation from English**	
Course Summary: This course is designed for the highly motivated college bound junior who has demonstrated consistent advanced academic achievement in the areas of reading, writing, speaking and listening. This achievement will be demonstrated by scores at an advanced level on assessments such the PSAT and state-level reading and writing tests as well as classroom performance. Students qualifying for this class are expected to be responsible and independent learners. Course content will include extensive composition and in-depth reading of poetry, short stories, essays, dramas and novels.	

Academic English 11	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th	Special Notes:
Prerequisites: **Successful completion of English 10**	
Course Summary: This course is designed for the junior who has demonstrated consistent academic achievement at a proficient level in the areas of reading, writing, speaking and listening and who may be considering attendance at a two year or four year college. This achievement will be demonstrated by scores at a proficient level on assessments such as the PSAT and state-level reading and writing tests as well as classroom performance. Course content will include composition as well as reading of poetry, short stories, essays, dramas and novels.	

ENGLISH LANGUAGE ARTS DEPARTMENT CONT'D

Honors English 12	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: Weighted at a 1.1
Prerequisites: **Successful completion of Honors English 11 or teacher recommendation from English 11**	
Course Summary: This course is designed for the college bound senior who has demonstrated consistent advanced or proficient achievement in the areas of reading, writing, speaking and listening. Students qualifying for this class are expected to be responsible and independent learners capable of doing extensive in-depth reading of poetry, short stories, essays, dramas and novels. Literature selections will feature British Literature as well as other teacher-selected topics. Students will also write a college level research paper. Students who excel in this course will be eligible to take the AP Literature and Composition exam.	

Academic English 12	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed for the senior who has demonstrated consistent academic achievement at a proficient level in the areas of reading, writing, speaking and listening and who may be considering attendance at a two-year college, technical school or entrance into the job market upon graduation. Students qualifying for this class are expected to be responsible learners capable of doing reading of poetry, short stories, essays, dramas and novels. Literature selections will feature British Literature as well as other teacher-selected topics. Students will also write a college-style research paper.	

AP English Language and Composition	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: Weighted at a 1.2/Mount Aloysius EN110
Prerequisites: **Successful completion of Honors English 10, Honors English 11 or teacher's recommendation** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: The AP course in English Language and Composition provides the highly motivated student with opportunities to read and write about a variety of subjects from a variety of disciplines and to demonstrate an awareness of audience and purpose. It engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. It is suggested that these students take the AP Language and Composition test in May – under school district policy.	

ENGLISH LANGUAGE ARTS DEPARTMENT CONT'D

AP English Literature and Composition	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: Weighted at a 1.2/ Mount Aloysius EN 111
Prerequisites: **Successful completion of Honors English 10, Honors English 11 or teacher's recommendation** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: An AP English Literature and Composition course engages highly motivated students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. It is suggested that these students take the AP Literature and Composition test in May – under school district policy.	

Communications I	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed to give students an introduction to all aspects of communication in the modern world. It includes aspects of journalism, speech, composition, and mass media. Students will gain a better understanding of how to analyze and present messages in all aspects of communication including electronic and print media. The students will be required to work on a team to produce various projects such as a newspaper, radio advertisement, videos and a web site. The student will also write various research papers on topics relating to the media.	

Communications II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Communication I**	
Course Summary: This course is for the student who has successfully completed Communications I and wishes to develop communication skills at an advanced level. Extensive video and T.V. production will be featured.	

ENGLISH LANGUAGE ARTS DEPARTMENT CONT'D

Speech/Public Speaking	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: Students will be introduced to speech/public speaking through the process of creating and producing their own presentations. Students will study the components of effective public speaking including effective listening, providing effective feedback, and the ethics of public communication. Students will make use of various types of multimedia to enhance their presentations and learn how to present effectively using those formats. They will also learn how to effectively use web tools such as video blogs and podcasts to present their message.	

Drama as Literature	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This semester course is recommended for any student with interest in studying plays for their literary and historical value. Students in this class will read plays and learn the development of drama as literature beginning with the Greeks and progressing through modern drama.	

Creative Writing	
Course Term: Semester	Course Credit: .5
Permitted Grades:10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: Creative Writing is designed to focus on the craft of writing in various modes of composition and creative approaches. The course is based on honing writing techniques for the sake of quality writing, not for the purpose of understanding and comprehending text, but for the sake of creating text. Students will encounter a variety of genres of writing and primarily explore strategies to become stronger writers themselves.	

ENGLISH LANGUAGE ARTS DEPARTMENT CONT'D

Yearbook I and II	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: Yearbook I and II is open to any student with an interest in graphic design, publishing, journalism, or photography. Students will develop and practice skills necessary to design, produce, and market an annual publication. Students are responsible for layout design, copywriting and editing, and obtaining photographic and statistical materials. Development of a sales plan will also be covered. Successful completion of this course will be dependent on demonstration of competency (Yearbook I)/mastery (Yearbook II) in the following areas: basic computer skills and digital file management, use of Adobe InDesign (or other specialized production program), a grasp of the elements of quality graphic design and print industry standard design and terminology.	

Yearbook III and IV	
Course Term: Full Year	Course Credit: 1
Permitted Grades:11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Yearbook I & Yearbook II**	
Course Summary: Yearbook III and IV is open to students who have interest in graphic design, publishing, journalism, or photography, and who have demonstrated mastery in Yearbook II. In addition to page design and production, Yearbook III and IV students serve as mentors and team/section leaders to yearbook I and II students as well as editorial positions on the staff. Editors are responsible for page submission and communication with the yearbook printing company. Yearbook III and IV students will also develop and implement a school wide and community wide marketing plan with the help and support of their team members. Successful completion of this course will be dependent on demonstration of mastery in the following areas: team/section leadership, editorial responsibilities, and analysis of the marketing plan.	

PSAT/SAT Prep and Study Skills	
Course Term: Semester	Course Credit: .5
Permitted Grades:10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This semester course (nine weeks English/Language Arts focus and nine weeks Math focus) is open to all students and will focus on supporting opportunities for success on the PSAT, the NEW SAT, and in the general classroom. Students will learn the composition of the test and sound test-taking strategies. In addition, supplemental instruction in the new tested areas of Reading, Writing and Language, Essay and Math will be provided along with other study skills to enhance a student's academic success.	

ENGLISH LANGUAGE ARTS DEPARTMENT CONT'D

Film as Literature	
Course Term: Semester	Course Credit: .5
Permitted Grades:9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is open to all students who will explore the existence of films of varying genres which come from both written and non-written texts. Students will focus on both the techniques (sound, lighting, camera angles, etc.) and the literary elements (archetypes, themes, etc.) that the filmmaker uses to contribute to the film. In addition, students will develop the skills necessary to analyze how all elements enhance the film's success. The course will culminate in the students creating a short film of their own to demonstrate the skills that they have learned.	

Gothic Literature: Monster Stories	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This elective focuses on monsters, from vampires to ghost, which have influenced fiction writers since the 18th century. Terror versus horror, the influence of the supernatural and the descriptions of the difference between good and evil are just a few of the themes presented. Major gothic literary character studies include: Frankenstein, Jekyll and Hyde, Dracula, ghost from beyond the grave, and the monsters that may lie within us.	

Keystone Literature	
Course Term: Semester	Course Credit: .5
Permitted Grades:11th & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This semester course is designed to provide supplemental instruction for juniors and seniors who are required to retake the Keystone Literature Exam. This semester course will review and practice the eligible content of the state standards with the focus on moving each student to a proficient level.	

MATHEMATICS DEPARTMENT

Faculty

Ms. Leanne Fuller	Mr. Dennis Nosker	Mr. Douglas Straub
Mr. John Wayne*	Mrs. Dawneen Good	Mrs. Heather Pasternak
Mr. Michael Yoha	Mrs. Michelle Snyder	Mr. Micah Wolfe
Mr. John McDermott		

*department chair

Mathematics I/II	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th &10th	Special Notes:
Prerequisites: **Completion of Math 813**	
Course Summary: This course is designed for the student who has not had the opportunity to master Algebra I at a proficient level during his/her middle school years. The content includes solving equations, inequalities, operations of polynomials, functions, basic operations with radicals and quadratic equations. Key features of this curriculum reinforce and review Algebra I and also integrate algebra concepts with geometry concepts such as points, lines, planes and triangles. Additional students may be scheduled for this course on a case by case basis.	

Foundations of Algebra	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes:
Prerequisites: **Completion of Math 813**	
Course Summary: This course is designed for the student who has not had the opportunity to master Algebra I during his/her middle school years. The content includes solving equations, inequalities, operations with polynomials, basic operations with exponents, and quadratic equations. Additional students may be scheduled for this course on a case by case basis.	

MATHEMATICS DEPARTMENT CONT'D

Academic Alg. I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes:
Prerequisites: **Completion of Math 812 or Algebra 811**	
Course Summary: This course is designed for the student who has completed Academic Pre-Algebra during his/her middle school years. The content includes solving equations, inequalities, operations with polynomials, functions, radicals, rational expressions, graphing, systems of equations, and quadratic equations. Students in this course will take the Keystone Algebra I Exam.	

Algebra 1(9) -Module 1	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes:
Prerequisites: **Completion of Math 813**	
Course Summary: Algebra I – Module 1 is the first course of a two-year algebra sequence. The course is designed to provide the students with the beginning concepts of basic algebraic structure and the assessed standards in the first module of the Pennsylvania Keystone Exams. Students who have completed a Pre-Algebra course during his/her middle school years will be scheduled for this course. The course focuses on the development of algebraic standards and the proficiencies of eligible content required by our district and the state. Topics include algebraic operations with real numbers and expressions; write, solve, and graph linear equations and inequalities; and, write, solve, and graph systems of equations and inequalities. After completion of Algebra I – Module 1, students will need to complete Algebra I – Module 2 to receive the full curriculum of an Algebra I course.	

Algebra 1-Module 2	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th & 11th	Special Notes:
Prerequisites: **Completion of Algebra I Mod 1**	
Course Summary: Algebra I – Module 2 is the second of a two-year algebra sequence. The course is designed to continue providing the student with algebraic structure and the assessed standards in the second module of the Pennsylvania Keystone Exam. Students who have completed Algebra I – Module 1 will be scheduled for this course. The course focuses on the continued development of algebraic standards and the proficiencies of eligible content required by our district and the state which include moving from recall to a heightened depth of knowledge. Topics include a review of Algebra 1 Module 1 concepts as well as analyzing and interpreting patterns and relations of linear functions, coordinate geometry, and using data analysis to make predictions. Students in Algebra I – Module 2 will take the Keystone Algebra I Exam.	

MATHEMATICS DEPARTMENT CONT'D

Academic Geometry	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th	Special Notes:
Prerequisites: **Completion of Algebra I and Algebra II**	
Course Summary: This course is designed for the student who has taken Algebra I-Module II or Algebra II. It will help the student develop a greater understanding of previously learned geometric concepts and continue development of concepts in line and plane relationship, angles, parallel and perpendicular lines, congruence, symmetry, polygons, circles, area, volume, and logical reasoning.	

Advanced Geometry	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes:
Prerequisites: **Successful completion of Algebra 811**	
Course Summary: This year course is for the ninth grader who has successfully completed Algebra I in eighth grade and has demonstrated mastery at a proficient level on assessments such as the Keystone Exam. This course will emphasize the use of logical deductive reasoning in problem solving. It will include the following geometric concepts: point and line relationships, angles, congruence, polygons, circles and solid geometry.	

Honors Geometry	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes: Weighted 1.1
Prerequisites: **Successful completion of Algebra 811**	
Course Summary: This course is for the ninth grader who has completed Algebra I in eighth grade at an advanced level. Students selecting this course should also perform at an advanced level on assessments such as the Keystone Exam. This is a rigorous mathematics course that will heavily emphasize the use of logical deductive reasoning in problem solving. It will include the following geometric concepts: line and plane relationship angles, parallel and perpendicular lines, congruence, polygons, circles, solid geometry, area, volume, transformations and coordinate geometry.	

MATHEMATICS DEPARTMENT CONT'D

Geometry 12	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes:
Prerequisites: Academic Algebra II (11)	
Course Summary: This course is designed for the student who has taken Algebra I-Module II. It will help the student develop a greater understanding of previously learned geometric concepts and continue development of concepts in line and plane relationship, angles, parallel and perpendicular lines, congruence, symmetry, polygons, circles, area, volume, and logical reasoning. Proofs are not incorporated into this class.	

Academic Algebra II	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes:
Prerequisites: **Completion of Advanced Geometry & Academic Algebra I**	
Course Summary: This course is designed for the academic student who successfully completed Academic Algebra I or Algebra I-Module II. It will aid the academic student in preparing for college and for a better understanding of algebra. Units of study will include factoring, operations with rational expressions, simplification of rational and radical expressions, and solving quadratic, rational, exponential, and logarithmic equations.	

Advanced Algebra II	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes:
Prerequisites: **Completion of Advanced Geometry or Honors Geometry**	
Course Summary: This course is for the college bound student in grade ten who has successfully completed Algebra I and Geometry. Units of study for this course will include factoring, operations with rational expressions, simplification, and work with radical expressions, and solving quadratic, rational, exponential, and logarithmic equations.	

MATHEMATICS DEPARTMENT CONT'D

Honors Algebra II	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes: Weighted at 1.1
Prerequisites: **Completion of Honors Geometry or a teacher recommendation from Advanced Geometry**	
Course Summary: This course is for the student who has successfully completed Algebra I and geometry at an advanced level in both classes. Students selecting this course should also perform at an advanced level on assessments such as the Keystone Exam. This is a rigorous mathematics course that will focus on major units of study that include polynomials and factoring, concepts of relations and functions, solutions of equations and inequalities in one and two variables, solution of systems of equations and inequalities, irrational numbers, solutions of quadratic equations, elementary analytic geometry and complex numbers. Emphasis is placed on problem solving.	

Mathematics III/IV	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes:
Prerequisites: **Completion of Math I & Math II**	
Course Summary: This course is designed for the student who has successfully completed Math I/II. This course will build on the algebra and geometry concepts introduced in Math I/II. Students will study factoring operations with rational expressions and functions, as well as concepts found in the second semester of geometry. In addition to these concepts, students will study logarithms, quadratic equations, right triangle trigonometry and surface area/volume. Additional students may be scheduled for this course on a case-by-case basis. Students in this course will take the Keystone Algebra I Exam.	

Honors Pre-Calculus	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th	Special Notes: Weighted at 1.1
Prerequisites: **Completion of Honors Algebra II or a teacher's recommendation from Advanced Algebra II**	
Course Summary: The pre-calculus course is a fast-paced, rigorous course designed for the advanced student who has successfully completed Accelerated Algebra I, Honors Geometry, Honors Algebra II, (or equivalents) and intends to participate in AP Calculus or Honors Calculus in his/her senior year. Major concepts covered include linear, quadratic, rational, radical, exponential, and logarithmic functions along with their graphs; equations; and series and sequences. The course also addresses topics of trigonometry including acute angles, right triangles, the unit circle, solving triangles, solving trigonometric equations, proving identities, and applications of trigonometry.	

MATHEMATICS DEPARTMENT CONT'D

Trigonometry	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes:
Prerequisites: **Completion of Advanced Math or Honors Pre-Calculus**	
Course Summary: This course is designed as a successor to Advanced Math students or for students who have completed Honors Pre-Calculus and have opted not to take a calculus course. It will address topics of trigonometry including acute angles, right triangles, the unit circle, uniform circular motion, solving triangles, solving trigonometric equations, graphing trigonometric functions, proving identities, vectors, polar coordinates and graphs of polar equations, and applications of trigonometry. Graphing calculators will be used to aid in understanding of concepts presented in this course.	

Advanced Math	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes:
Prerequisites: **Completion of Advanced Algebra II**	
Course Summary: This is the first part of a pre-calculus course for the students who has successfully completed Algebra I, Geometry, and Algebra II but is not intending to take a calculus course as a senior or who is not planning on pursing a math related career. Major concepts covered include linear, quadratic, polynomial, rational, radical, exponential, and logarithmic functions along with their graphs; equations; functions; conics; matrices; and series and sequences. Also included will be the binomial theorem, math induction, and systems of nonlinear equations.	

Transitions to College Math	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th& 12th	Special Notes:
Prerequisites: Algebra II & Geometry	
Course Summary: This course is designed for the senior who has completed Academic Algebra I, Academic Algebra II, and Academic Geometry and plans to attend a two or four-year college or the senior who needs to improve his/her understanding of algebraic concepts. The topics covered in this course are number systems and relationships, linear equation and inequalities, systems of equations, rational expressions, and functions (including linear, quadratics, exponential, and logarithmic). The course also includes right triangle trigonometry. The graphing calculator is used to reinforce and provide concrete representations of the algebra and functions.	

MATHEMATICS DEPARTMENT CONT'D

Transitions to College Math	
Course Term: Semester	**Course Credit: .5**
Permitted Grades: 12th	**Special Notes: Cannot be taken by the student who has completed the full-year Transitions to College Mathematics course.**
Prerequisites: Algebra II & Geometry	
Course Summary: This course is designed for the senior who has completed Geometry and Algebra 2. The course will help prepare the college preparatory students who need to take College Algebra. Topics include Foundations of Algebra, Basic Geometry, Exponents, and Linear Equations and Inequalities.	

Honors Calculus	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: Weighted at 1.1
Prerequisites: **Successful completion of Honors Pre-Calculus and teacher's recommendation**	
Course Summary: This course is designed for the student who has successfully completed Algebra II, Trigonometry and Advanced Math, and plans to study science, math, and possibly business in college. Course content begins with the first marking period reviewing a wide variety of concepts from previous math courses and then proceeds into differential and integral Calculus for the remainder of the school year. The Honors Calculus course will cover a majority of the same material as the AP-Calculus course, but at a reduced pace. Students planning to schedule this course need the recommendation of their Honors Pre-calculus instructor.	

AP Calculus (AB)	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: Weighted at 1.2
Prerequisites: **Successful completion of Honors Pre-Calculus and teacher's recommendation** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course is designed to provide students with a learning experience equivalent to that of one-and-a-half college courses in single variable calculus. The AP Calculus (AB) course develops students' understanding of the concepts of both differential and integral calculus and provides experience with its methods and various applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally, with the connections among these representations highlighted. Taking the AP exam, offered by the College Board in May, is not a requirement of this course, but may earn a student college credits upon earning a passing score.	

MATHEMATICS DEPARTMENT CONT'D

Introduction to Statistics & Probability	
Course Term: Nine Weeks	Course Credit: .25
Permitted Grades: 9th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is a nine-week course designed for ninth grade students to introduce and expand the use of data for predicting and decision-making in today's society. The course concentrated on calculating measures of central tendencies and dispersions, organizing and interpreting data visually, probabilities, counting, and making predictions through probabilities, odds, and lines of best fit.	

Statistics and Probability I	
Course Term: Semester	Course Credit: .5
Permitted Grades: Students graduating in 2020 and 2021	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed for ninth or tenth grade students to introduce and expand the use of data for predicting and decision-making in today's society. The course concentrates on calculating measures of central tendencies and dispersions, organizing and interpreting data visually, probabilities, counting, and making predictions through both probabilities and regression. State-level test taking techniques will be incorporated into the course. Content will also include instruction on the use of the TI-84 Plus calculators to assist in strengthening and understanding the concepts. Students schedule for this course should have successfully completed geometry at a proficient level in the ninth grade. This course will be followed by a Statistics and Probability II course in the eleventh grade.	

Statistics and Probability II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10^{th}, 11^{th} and 12^{th}	Special Notes:
Prerequisites: **Completion of Statistics and Probability I**	
Course Summary: This course is designed for grade eleven students to expand the use of statistics and probability into other fields and curriculums such as economics, business, medicine, advertising, etc. Content will include a review of the Statistics I topics of calculating measures of central tendencies and dispersions, organizing and interpreting data visually, probabilities, counting, and making predictions through both probabilities and regression in an effort to give students a wider view of statistics requiring the questioning of the collection of data, its analysis, and its value. Topics covered will include considerations of sampling and measurement, estimation, normal distributions, and the use of the TI-84 calculator to assist in calculations and strengthen the understanding of the concepts. Students will broaden their view of mathematics and its usefulness as they discuss statistical conclusions across the curriculum both orally and in writing. Mathematics test –taking strategies useful on state-level testing will be incorporated on an ongoing basis.	

MATHEMATICS DEPARTMENT CONT'D

Game It	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: Is an introductory course to game design and development that engages students in project-based learning. From the first lessons to the last lesson students navigate through guided tutorials building 5 NEW games!	

Computer Programming	
Course Term: Semester	Course Credit
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: Must have completed Algebra I	
Course Summary: This elective course is designed for students in grades 9-12 who have an interest in computer science, engineering, or other related fields. Students will study the foundations of computer science and basic programming, with an emphasis on developing logical thinking and problem solving skills. No programming experience is required.	

Computer Science B	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: Must have completed Computer Programming	
Course Summary: This elective course is designed for students in grades 10-12 who have completed Computer Science A and have an interest in pursuing computer science, engineering, or other related fields as a career. Students will review the foundations of computer science and basic programming and continue on to more advanced topics in computer programming. Prerequisites: Must have completed Computer Science A and have a B or better in previous math courses or have the recommendation of computer science teacher. The programming language in this course is C++.	

MATHEMATICS DEPARTMENT CONT'D

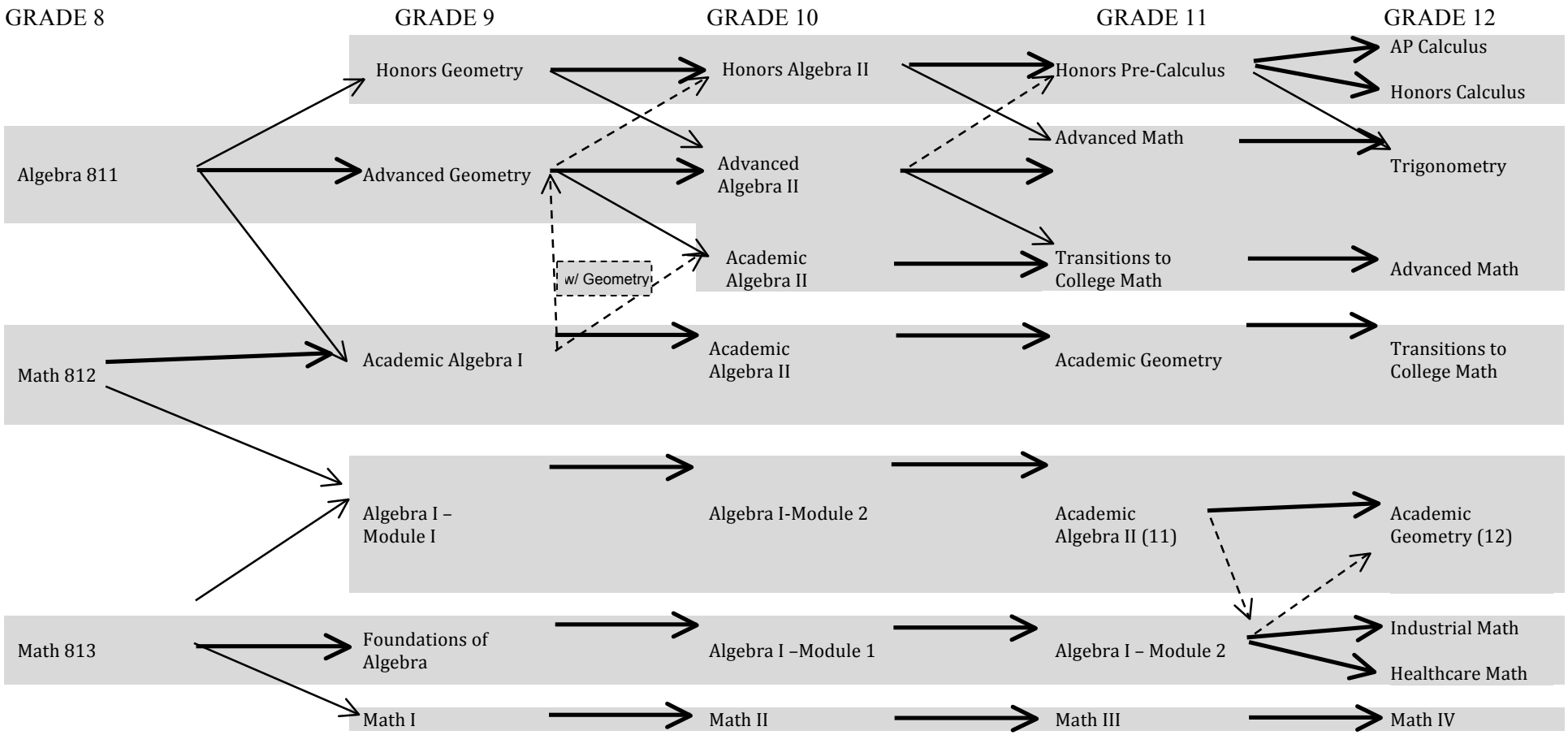
Industrial Math	
Course Term: Semester	Course Credit: .5
Permitted Grades: 12th	Special Notes:
Prerequisites: Geometry and Algebra 2	
Course Summary: Industrial mathematics is a branch of applied mathematics which focusses on problems which come from industry and aims for solutions which are relevant to industry, including finding the most efficient (i.e., cost-effective) way to solve the problem. This course is designed for the senior who has completed Geometry and Algebra 2. The course will be application based and involve a project.	

Healthcare Math	
Course Term: Semester	Course Credit: .5
Permitted Grades: 12th	Special Notes:
Prerequisites: Geometry and Algebra 2	
Course Summary: This course is designed for the student who has an interest in pursuing a career in healthcare. In most cases, algebra and/or statistics are the core math classes in nursing school, with additional requirements depending on whether you are getting your Associate degree or your Bachelors of Science in Nursing with medical doctor's needing more analytical math courses. Topics include metric conversions, metric-to-English conversions, ratios and proportions, IV flow rates, grams and calories.	

Keystone Mathematics	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed to provide supplemental instruction for students who are required to retake the Keystone Algebra I Exam. This semester course will review and practice the eligible content from the Keystone Algebra I Exam with the focus on moving each student to a proficient level.	

MATHEMATICS DEPARTMENT CONT'D

MATH FLOWCHART



SCIENCE DEPARTMENT

FACULTY

Ms. Jennifer Keith*	Mr. Mark Schindler	Mr. Douglas Brennan
Mr. John Keith	Mrs. Julie Burkett	Mrs. Joanne McCall
Mr. Richard McClelland	Mr. Michael Mancuso	Mr. Ken Evans
Mr. Jason Shilala	Mr. Robert Bowser	Mr. Bradley Sweet
Mr. Edward Scott		

*department chair

Earth and Life Science	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes:
Prerequisites: **Successful completion of Science 832 & Science 833**	
Course Summary: This course is a required course designed for ninth grade students of varying abilities. It places heavy emphasis on the scientific method and introduces the student to astronomy with principle emphasis on our solar system; geology; oceanography; physical geography including land-forms, mapping, erosion effects and topography; meteorology or weather and climate; hydrology or the study of ground water and fresh water supplies; chemical principles including atomic structure, bonding, periodic trends, biological molecules and compounds, endothermic and exothermic reactions; and ecology including the biosphere, populations, communities, pollution, geochemical cycles, and human interactions with the Earth's environment.	

Introductory Biology I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes:
Prerequisites: Earth and Life Science	
Course Summary: This course, based on the Pennsylvania Academic standards for Science and Technology and Environment and Ecology, is designed for the student who is preparing for post-secondary study in a technical program. Topics will include the basic concepts of cells, genetics, ecology and a survey of the plant and animal kingdom. Real world applications of science will be featured especially as they relate to technical career possibilities. Laboratory safety and scientific method will be emphasized throughout the course. Appointment to this class is based on a review of the student's academic proficiencies. Students in this course will take the Keystone Biology Exam.	

SCIENCE DEPARTMENT CONT'D

Academic Biology I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes:
Prerequisites: **Successful completion of Earth and Life Science**	
Course Summary: This course, based on the Pennsylvania Academic Standards for Science and Technology and Environment and Ecology, is designed for the academic student in tenth grade who has an average background in science. The areas of emphasis will include cytology/ microbiology, genetics, zoology, and ecology. Laboratory safety and scientific method will be emphasized throughout the course. Students in this course will take the Keystone Biology Exam.	

Accelerated Biology I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes:
Prerequisites: **Successful completion of Ecology 830**	
Course Summary: This course is designed for the accelerated ninth grade student who successfully completed Earth Science in the eighth grade and who wishes to take Biology a year early for the purpose of taking additional science courses while in high school. This course is based on the Pennsylvania Academic Standards for Science and Technology and Environment and Ecology. The areas of emphasis will include cytology/ microbiology, genetics, zoology, and ecology. Laboratory safety and scientific method will be emphasized throughout the course. Students in this course will take the Keystone Biology Exam.	

Honors Anatomy & Physiology (10)	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes: Weighted at 1.1
Prerequisites: **Successful completion of Accelerated Biology I and/or the recommendation of the student's biology teacher**	
Course Summary: This accelerated elective is designed for advanced sophomore science students. The first part of this course deals with molecular biology, a rapidly expanding field that explores cellular processes at the molecular level. Content in this course will include how the genetic information contained in DNA is used to create and maintain functioning cells. It will also explore the biochemistry of how cells provide the energy needed for these processes. In the second part of this course, students will be expected to dissect a fetal pig and do in-depth lab work dealing with the anatomy and physiology of the human body. Students should expect extensive microscope work and labs. Independent and small group study will help prepare the student for his/her college experience.	

SCIENCE DEPARTMENT CONT'D

Honors Anatomy & Physiology	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: Weighted at 1.1
Prerequisites: **Successful completion of Biology and/or the recommendation of the student's biology teacher**	
Course Summary: This elective is designed for the junior or senior science student who may be interested in a career in a biology related field such as research, nursing, X ray technician, or phlebotomist. The first part of this course deals with molecular biology, a rapidly expanding field that explores cellular processes at the molecular level. Content in this course will include how the genetic information contained in DNA is used to create and maintain functioning cells. It will also explore the biochemistry of how cells provide the energy needed for these processes. In the second part of this course, students will be expected to do lab work dealing with the anatomy and physiology of the human body. Students should expect extensive microscope work and labs. Independent and small group study will help prepare the student for his/her college experience.	

AP Biology	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: Weighted 1.2/Mount Aloysius BIO 101
Prerequisites: **Successful completion of Biology and Advanced Chemistry I** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: AP Biology is a yearlong course that is taken by students who have successfully completed biology and chemistry. Adhering to the curricula recommended by the College Board and designed to parallel college-level introductory courses, AP Biology is a course that aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This course covers three general areas: molecules and cell; genetics and evolution; and organisms and populations. AP Biology includes college-level laboratory experiments. This course is designed to prepare students for the Biology College Board Advanced Placement Exam.	

Wildlife Biology	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is dedicated to the study of the organisms that live and thrive in Pennsylvania. This course provides a background in the fundamental principles of ecological science, including concepts of natural selection, population and community ecology, biodiversity, and sustainability. Students will acquire an "understanding" about how the natural world works, and develop an understanding of how scientific methods are used to construct ecological knowledge. The course will also explore some of Pennsylvania's most common species and their interactions with the environment.	

SCIENCE DEPARTMENT CONT'D

Introduction to Chemical Technology	
Course Term: Semester	Course Credit: .5
Permitted Grades: 11th & 12th	Special Notes:
Prerequisites: No prerequisite required.	
Course Summary: This course is designed for students who do not plan to pursue any further post-secondary education. The focus of the course is to familiarize students with basic science concepts that will permit them to be knowledgeable in everyday chemical procedures. The course will cover: atoms and elements, matter and energy, chemical changes, mixtures and solutions, and chemical reactions. The student will be responsible for: reading the textbook, submitting assignments timely, laboratory worksheets, good attendance, and have a proper work attitude. Appointment to this class is based on a review of the student's academic proficiencies. Laboratory investigations will help students understand chemical application to areas such as business, agriculture and medicine.	

Chemistry I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th	Special Notes:
Prerequisites: **Successful completion of Academic Biology**	
Course Summary: This course is designed for students who will pursue a college degree in a non-science related field. The course involves one two-period session for activities or laboratory exercises every five days. Topics to be covered include measurement, matter, energy, atomic structure, periodicity, bonding, chemical equations, stoichiometry, and the behavior of gases. The students are expected to solve related mathematic, geometric and algebraic problems throughout the year. A good working knowledge of these content areas is highly recommended. Laboratory investigations and reports will help students with chemistry applications in future endeavors.	

Honors Chemistry I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th & 11th	Special Notes: Weighted 1.1
Prerequisites: **Successful completion of Accelerated Biology or Academic Biology**	
Course Summary: This course is designed for students who will pursue a four-year degree in a science field or a science-related field. This course is recommended for those students planning on taking physics or honors chemistry II, and for students who are not certain of their career goal and have not eliminated the possibility of science. The course includes one double-period laboratory every five days. The course allows students to experience inquiry-based lecture, in-depth laboratory exercises and detailed laboratory analysis and reports. Numerous topics such as atomic structure, periodicity, chemical bonding, nomenclature, chemical reactions, stoichiometry, and the behavior of gases are studied in depth. The students are expected to apply mathematic, geometric and algebraic concepts to solve problems throughout the year. A good working knowledge of these content areas is highly recommended. Students will conduct laboratory exercises that repeat important experiments conducted by famous scientists, to verify physical constants and chemical behavior, and to solve specific problems.	

SCIENCE DEPARTMENT CONT'D

Honors Chemistry II-Honors Inorganic and Organic Chemistry	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: Weighted 1.1
Prerequisites: **Successful completion of Honors Chemistry I**	
Course Summary: This course is designed to provide a rigorous advanced chemistry course for students who plan on entering a college as a chemistry major or in a science, medical or engineering field. Students enrolled in this course should have earned a B or higher in Accelerated Biology I and Advanced Chemistry I. The course includes three one double-period laboratory every five days. The course allows students to experience inquiry-based lecture, in-depth laboratory exercises and detailed laboratory analysis and reports. Inorganic topics to be covered include solutions, chemical equilibrium, acids and bases, thermochemistry, phase changes, thermodynamics, reaction kinetics, and electrochemistry. Organic topics to be covered include structure, physical properties, nomenclature, and reactions of saturated and unsaturated hydrocarbons, and several other functional groups. The students are expected to apply mathematic, geometric, and algebraic concepts to solve problems throughout the year. A good working knowledge of these content areas and of several chemistry I concepts is highly recommended. Students will conduct laboratory exercises that repeat important experiments conducted by famous scientists, to verify physical constants and chemical behavior, and to solve specific problems.	

Introductory Conceptual Physics 1	
Course Term: Semester	Course Credit: .5
Permitted Grades: 11th & 12th	Special Notes:
Prerequisites: Introduction to Biology, Introduction to Chemical Technology	
Course Summary: This course is for the student who has an average background in science and wishes to pursue a two year degree, technical degree or pursue a job in business or industry upon completion of high school. This course blends both conceptual and analytical strategies with an understanding of basic principles that have practical real world application. Covered in this course are such topics such as classical mechanics, momentum & energy.	

Physics	
Course Term: Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes:
Prerequisites: Successful completion of Algebra I	
Course Summary: This course is designed for the student who plans to pursue a four-year college degree in a non-science related field. Concepts covered in this class include classical mechanics, energy, waves, and electricity. The student should have a solid algebra background and have successfully completed Honors Chemistry I or Chemistry I.	

SCIENCE DEPARTMENT CONT'D

Honor Physics	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: Weighted 1.1
Prerequisites: Accelerated Biology, Academic Biology	
Course Summary: This course is designed for the student who plans to pursue a four-year college degree in a science related field. Concepts covered in this class may include classical mechanics, energy, waves, and an introduction to electricity. The recommendation of a science teacher is required to schedule this course. The student should also have a sound math background and have completed Advanced Math or a higher level course. Juniors opting for Honors Physics must be enrolled in Advanced Math or a higher level course and must have taken or be taking Honors Chemistry I.	

AP Physics 1	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: Weighted 1.2/Mount Aloysius SC 103 Applied Physics
Prerequisites: **Successful completion of Accelerated Biology, Honors Biology II, Advanced Chemistry** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course is designed for the student who plans to pursue a four-year college degree in a science related field. It will provide students with a learning experience equivalent to that of an introductory college course in physics with a laboratory component. Concepts covered in this class may include classical mechanics, energy, waves, and an introduction to electricity. The recommendation of a science teacher is required to schedule this course. The student should also have a sound math background. Seniors taking this course must be enrolled in or completed Honors Pre-Calculus or Honors Calculus. Juniors opting for AP Physics 1 must have had Honors Chemistry I and must be taking or have completed Pre-Calculus.	

AP Physics 2	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: Weighted 1.2
Prerequisites: **Successful completion of AP Physics 1.** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course is designed to provide students with a learning experience equivalent to that of a second semester college physics course, with a laboratory component intended for non-physics or non-engineering majors. The course includes topics in both classical and modern physics including fluid mechanics, thermodynamics, optics, electric circuits, magnetism, nuclear physics, and an introduction to the quantum model. Students in this course must have completed AP Physics 1, and must be enrolled in or completed a Calculus course.	

SCIENCE DEPARTMENT CONT'D

Engineering Concepts	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **Must have taken or currently be enrolled in Algebra 2**	
Course Summary: This elective course is designed for students in grades 10-12 who may have an interest in pursuing engineering as a career or a related field. Students will gain experience in the various types of engineering careers, the engineering design process, programming, 3-D modeling, communications, and documentation.	

STEM Lab	
Course Term: Spring Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12	Special Notes:
Prerequisites: No prerequisite required.	
Course Summary: This course provides students with the opportunity to participate in STEM (Science, Technology, Engineering, and Mathematics) related activities. Students in this course will develop basic skills in areas such as engineering, 3D modelling, computer programming, and manufacturing technologies such as CNC milling and 3D printing. Certain activities will also develop and enhance presentation and public speaking skills.	

Competitive Robotics 1	
Course Term: Fall Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12	Special Notes: Students should be willing to be a part of the BEST Robotics or VEX Robotics competitive team.
Prerequisites: No prerequisite required.	
Course Summary: Projects completed in this course are conducted to meet the frameworks and guidelines of the BEST Robotics curriculum. This course will run for a semester allowing students to prepare, register, and fundraise for the aforementioned BEST Robotics contest. Extensive lab work will require an after school commitment should the student choose to immerse themselves fully in this contest. Enrolling students will be required to submit a signed parental contract that signifies an awareness and acknowledgement of the extracurricular possibility and costs associated with optional competitions.	

SCIENCE DEPARTMENT CONT'D

Competitive Robotics 2	
Course Term: Spring Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12	Special Notes: Students must be a part of a VEX Robotics competitive team to enroll
Prerequisites: No prerequisite required, but student MUST be on a VEX competition robotics team.	
Course Summary: This course will run during the second semester allowing students to continue with the VEX EDR Robotics contests which takes place in the spring. Extensive lab work may require an after school commitment should the student choose to immerse themselves fully in these contests. Enrolling students will require to submit a signed parental contract that signifies an awareness and acknowledgement of the extracurricular possibility and costs associated with optional competitions.	

Honors Biochemistry	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: Weighted 1.1
Prerequisites: **Successful completion of Accelerated Biology, Advanced Chemistry I, Honors Chemistry II**	
Course Summary: This course is designed to provide an introductory biochemistry course for students who plan on entering a four-year college degree in biology, chemistry, biochemistry, biochemical engineering, and degrees with a pharmaceutical or medical focus. Students enrolled in Honors Biochemistry should have earned a B or higher in Accelerated Biology I, Honors Molecular Biology/Anatomy & Physiology, Advanced Chemistry I, and Honors Chemistry II. The course includes three periods of lecture and one double-period laboratory every five days. The course allows students to experience inquiry-based lecture, in-depth laboratory exercises and detailed laboratory analysis and reports. Biochemistry will examine biological processes on the molecular level using chemistry principles. The students are expected to apply mathematic, geometric, and algebraic concepts to solve problems throughout the year. A good working knowledge of these content areas is highly recommended. Students will conduct laboratory exercises to verify biochemical behavior, to isolate certain biochemical molecules, and to solve biochemical problems. Students will also experience writing a college-level research paper focused on a current biochemical concept.	

AP Environmental Science	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th, & 12th	Special Notes: Weighted 1.2
Prerequisites: Earth Science, Biology I, and Advanced Chemistry I. **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course is designed to provide students with a learning experience equivalent to that of an introductory college course in environmental science, with a laboratory component intended for more advanced study of environmental science to fulfill a basic requirement for a laboratory science. The course provides students with the understanding of the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. This course is open to juniors and seniors with seniors having first preference. Students must have a solid background in Algebra.	

SCIENCE DEPARTMENT CONT'D

Astronomy	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This elective course will introduce students to the ever changing and fascinating subject of our universe. Emphasis will be placed upon current knowledge of the structure and function of the solar system, stars, galaxies and features such as black holes, dark matter and dark energy. The students will investigate the future of space travel, colonization of other worlds, and the development of space weather capabilities. Lab activities, online research, projects, videos and games will be a part of the daily classwork.	

Forensic Science: Secrets of the Dead	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This online course focuses on techniques and practices law enforcement uses during a crime scene investigation. Topics explored include how evidence is discovered, secured and analyzed within the legal guidelines. The evidence studied included physical evidence such as footprints, tire tracks, hair, blood, fingerprints, firearms, tool marks, and accelerants or explosives in the case of arson. The course continues with analyzing other evidence such as determining time of death in homicides and some of the consideration that need to be made in the use of DNA evidence in courts trials.	

Forensic Science II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This course takes up where Forensic Science I leaves off, although it can be taken as a separate course with no prerequisite. This course focuses on the analysis of evidence secured from crime scenes. Basic scientific principles that guide laboratory processes such as DNA testing toxicology, material analysis and techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy are examined.	

SCIENCE DEPARTMENT CONT'D

Great Minds in Science: Ideas for a New Generation	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This online course focuses on several of today's greatest scientific minds and how their unique concepts will shape our future world. Topics such as new theories on: the brain and how it works, space exploration, chemical communication in bacteria, artificial worlds, the ocean's "Twilight Zone", and particle physics are studied.	

Keystone Junior/Senior Level Biology	
Course Term: Semester	Course Credit: .5
Permitted Grades: 11th & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course has been created to provide supplemental instruction in an effort to reinforce science concepts from Biology I. The course content will help to prepare students attain proficiency when they retake the Keystone Biology Exam as it is designed to supplement and review biology concepts including cells, cell physiology, biochemistry, plants, animals, genetics, ecology, and taxonomy.	

SOCIAL STUDIES AND BEHAVIORAL SCIENCES

FACULTY

Mr. Justin Marshall	Mr. Michael Gressler	Mr. Lucas Bundy
Mr. David Martin	Mr. Terry Wingard	Mr. Shawn Deemer*
Mr. Robert Burns	Mrs. Jacqueline Norris	

*department chair

World Cultures	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes:
Prerequisites: Social Studies 821	
Course Summary: This course is required for all ninth grade students. In this course, students will gain a comprehensive understanding of the major cultures throughout our contemporary world. This understanding will be developed around the following themes: geography, people, history, institutions, cultural contributions and international relationships.	

AP World History	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th	Special Notes: Weighted 1.2/Mount Aloysius HS101
Prerequisites: Social Studies 822 **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course offered to freshman is designed to provide students with a learning experience equivalent to that of an introductory college course in World History. The purpose of the course is to develop understanding of the evolution of global processes and contacts, in interaction with different types of human societies. The course highlights the nature of changes and continuities over time and their causes and consequences, as well as comparisons among major societies. Students develop analytical skills with historical documents, visual and statistical evidence, and conflicting interpretations. The A.P. exam at the end of the year is recommended for students taking this course.	

SOCIAL STUDIES AND BEHAVIORAL SCIENCES CONT'D

US & PA History	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes:
Prerequisites: **No prerequisite required**.	
Course Summary: This course is required for all tenth grade students. The U.S. & PA History class is a study of how our country developed from the Reconstruction period following the Civil War until the economic and cultural prosperity of the Roaring 20's. In addition, students also study units on Pennsylvania's early development, geography, and forms of government. Students will analyze how the people, places, and events of this era in American history helped transform the United States into a military and economic world power. Throughout the course, a variety of disciplines, such as history, geography, economics, and civics, will be used to supplement instruction and make a connection to today's world.	

AP United States Government & Politics	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th	Special Notes: Weighted 1.2/Mount Aloysius PS203
Prerequisites: AP World Cultures or an A in World Cultures and a teacher's recommendations **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course, offered to sophomores, is designed to provide students with a learning experience equivalent to that of an introductory college course in Political Science. The purpose of this course is to develop an understanding of politics and government in the United States. This course will give students a thorough understanding of the establishment of government in the United States, political beliefs and behaviors, political parties, institutions of national government (Congress, President, and Supreme Court), and public policy. The A.P. exam at the end of the year is recommended for students taking this course.	

Modern U.S. History, Economics and Personal Finance	
Course Term: Year	Course Credit: 1
Permitted Grades: 11th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is required for all eleventh grade students. This class focuses on the political, economic and social changes of United States History from World War Two to the present. The curriculum will also cover the aspects of how economic activity impacts the forces of everyday life will be addressed through the following five areas: economic systems, markets and the functions of governments, scarcity and choice, economic interdependence and work and earnings. Students will be given insight into starting a business and the applications of such principles as Total Quality Management in business, as well as learning how to be intelligent consumers.	

SOCIAL STUDIES AND BEHAVIORAL SCIENCES CONT'D

AP United States History	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th	Special Notes: 1.2
Prerequisites: **AP U.S. Government or an A in U. S. & PA and a teacher recommendation** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course, offered to juniors, is designed to provide students with a learning experience equivalent to that of an introductory college course in United States history. The course is designed to provide students with the analytical skills and factual knowledge necessary to better comprehend the various social, political, economic, and cultural characteristics throughout the history of the United States. The A.P. exam at the end of the year is recommended for students taking this course.	

United States Government & Politics	
Course Term: Semester	Course Credit: .5
Permitted Grades: 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is required for all twelfth grade students unless students are taking an AP course in social studies. In this course students will study the principles and ideals of the American representative form of government, including: principles and documents of national and state government, rights and responsibilities of citizens, how government works and how international relationships function. This course will deal with the principles of law that most affect individuals in our society, including both criminal and civil law. Students will also compare the American representative form of government to governments in other countries around the world.	

AP Economics (AP Macroeconomics/AP Microeconomics)	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: 1.2 Mount Aloysius Econ 201
Prerequisites: **AP U.S. or an A in Economics/Finance Career Development and a teacher recommendation** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This course, offered to seniors, is designed to provide students with a learning experience equivalent to that of an introductory college course in macroeconomics and microeconomics. The purpose of the course is to give students a thorough understanding of the principles of economics that apply to a market-based economic system as a whole. It also will give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. The A.P. exam at the end of the year is recommended for students taking this course.	

SOCIAL STUDIES AND BEHAVIORAL SCIENCES CONT'D

AP European History	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: Weighted 1.2/Mount Aloysius HS 102
Prerequisites: **AP U.S. or an A in Economics/Finance Career Development and a teacher recommendation** **The A.P. exam at the end of the year is recommended for students taking this course**	
Course Summary: This senior level course offers students a learning experience equivalent to that of an introductory college course in European History or Western Civilization (1450 to the present). The course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the topics and materials in European History. It can be taken in lieu of Political Science or as an elective. The A.P. exam at the end of the year is recommended for students taking this course.	

Psychology	
Course Term: Semester	Course Credit: .5
Permitted Grades: 11th & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: In this elective course offered to seniors, the student will explore basic concepts of psychology, including methods and specialty areas. Methods for studying human behavior and development, and basic theories of personality will be presented. The role of heredity, environment, and biological influences on human behavior, in addition to the basic principles, theories, and processes of intelligence, learning, and thinking will be addressed. The student will also study the psychological development of the individual and the basics of group behavior.	

Sociology	
Course Term: Semester	Course Credit: .5
Permitted Grades: 11th & 12	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This sociology elective offered to seniors highlights basic concepts of sociology and culture. Attention is paid to the study of groups in society, the role of the individual in society, and how specific social institutions impact on our societal structure. The student will also explore human social behavior, including how people relate to each other and affect the behavior of one another. Contemporary social issues are also discussed.	

SOCIAL STUDIES AND BEHAVIORAL SCIENCES CONT'D

Ancient History and Mythology	
Course Term: Semester	Course Credit: .5
Permitted Grades:9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: The subject of Mythology has enjoyed a recent upswing in popularity due to the Percy Jackson young adult literature series which has spurred student interest in the original stories and cultures. This Ancient History and Mythology course will focus on the Greek/Roman, Norse, and Celtic/Arthurian mythologies as well as include native American and Asian myths with an eye toward how these myths apply to our culture and the modern world. This class will wrap up with a survey of modern myths and legends of pop culture. This course will be taught from a historical viewpoint and focus on historical topics which align to World History, Geography and Economics PA Academic Standards.	

Headlines and News	
Course Term: Semester	Course Credit: .5
Permitted Grades:9th, 10th, 11th, & 12th	Special Notes: (Weighted, Mt. Aloysius, etc)
Prerequisites: **No prerequisite required.**	
Course Summary: This semester course elective is designed for ninth through twelfth grade students. Students will learn to recognize history-making events as they occur. Significant stories will be researched through newspapers, magazines, and electronic research in the classroom/library. Students will learn to use all sources of information available to explain the significance of today's top new stories and be responsible for reading and reporting on today's history-making stories. This will be achieved through a series of written and oral reports. Students will also be required to participate in daily discussions of current events.	

Military History	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This is an introductory course for 10th through 12th grade that will provide a basis for careers in the military and intelligence community as well as corporate security. Topics covered may include: 1) Evolution of weapons and battlefield applications, both conventional and unconventional. 2) Battles that changed warfare. 3) Conventional and combined forces. 4) Small unit tactics, Special Forces, and force multipliers. 5) Practical applications of logistics. 6) Effects of geography, weather, natural resources and culture on warfare and policy. 7) Great thinkers on warfare from Sun Tzu through von Clausewitz to Schwarzkopf. In addition, students will be given the opportunity to participate in drill and practice as well as a morning flag ceremony. Note any guests will be soldiers and civilians currently working in their field or veterans, no recruiters will be allowed as they are already afforded specific times and places to talk to students.	

SOCIAL STUDIES AND BEHAVIORAL SCIENCES CONT'D

Law and Criminal Justice	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed to provide students with a basic understanding of our legal system. Students will focus on the need for laws, state and federal laws, criminal offenses, the criminal justice process, police procedures, civil law, and careers in the legal field.	

Civil War	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This elective course focus on the time period in the United States history between the War of 1812 and the Reconstruction Period. Students will study in depth the political, social, and economic impact of this era. During this time, the United States evolved from a small backward country into an emerging world power. The central focus will be the causes and results of American Civil War, which shaped and defined the role of the United States as it entered the 20th century.	

Introduction to Anthropology: Uncovering Human Mysteries	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This course studies "what it means to be human," in our past and present and the possibilities and challenges in our future world. It explores what makes humans special, how we got here, who we are, what we eat, what we do, what we believe and what family ties and human bonds keep up together. Students will explore how we have evolved from a biologically and culturally weak species to one that has the ability to cause catastrophic change.	

SOCIAL STUDIES DEPARTMENT CONT'D

Anthropology II: More Human Mysteries Uncovered	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This course takes up where Introduction to Anthropology leaves off, although this course has no prerequisite. Students study global cultures and the ways humans have made sense of their world. Topics explored from a cultural perspective include: rites of passage and initiation, different stages in the human experience, death and dying, human expressions utilizing art, music, and dance and that causes cultural change.	

Criminology: Inside the Criminal Mind	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: In this online elective course, students explore the field of criminology and the possible explanation for criminal behavior from psychological, biological, and sociological viewpoints. Additionally, the student will study the impact of crime on society, the affects our culture has on promoting deviance and the handling of criminals in the criminal justice system.	

History of the Holocaust	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust from the beginning through liberation and the aftermath of tragedy. Through this multi-disciplinary study, learners will gain an understanding of the ramification of prejudice as well as indifference, the potential for government-supported terror, and views of humanity, both good and bad in challenging times.	

SOCIAL STUDIES DEPARTMENT CONT'D

Archaeology: Detectives of the Past	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This elective focuses on the techniques, methods and theories that guide how archaeological research is conducted and interpreted, in addition to how artifacts are located and preserved. The relationship of artifacts to past cultures are explored in an effort to learn how the past had shaped our modern society.	

FOREIGN LANGUAGE

FACULTY

Mrs. Jennifer Buskirk	Mrs. Tracy Chewning	Mrs. Denise Sloan
Ms. Lisa Benn	Mrs. Sophie Riddle	

French I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th, 10th, 11th & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course combines a basic foundation of French conversation, vocabulary, grammar and composition. The students will read and write the language in a limited way and will speak to oral prompts at an introductory level. The culture and customs of France and Canada will also be studied. As the year progresses, the student and teacher will move from English to French as the main means of communication.	

French II	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of French I**	
Course Summary: This course expands upon material presented in French I with the goal of providing the readiness and skills needed to communicate at a survival level and/or to continue the study of French at an advanced level. Students are expected to read, write, speak, and understand material at an intermediate level. The culture and customs of Francophone Europe and the Caribbean will be studied. The student and instructor will use the target language with English usage based on teacher discretion.	

French III	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of French II**	
Course Summary: This course expands upon material presented in French II with the goal of providing the competency needed to communicate in real-world situations and/or study French at increasingly advanced levels. Students are expected to read and write more difficult material that will move them toward proficiency. Students will engage in basic creative writing with an emphasis on grammar and composition. The culture and customs of Francophone Africa and Asia will be studied. The target	

language is used extensively. English is used to reinforce key concepts.

FOREIGN LANGUAGE CONT'D

Honors French IV	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: Weighted 1.1
Prerequisites: **Successful completion of French III**	
Course Summary: This college preparatory course will refine skills in reading, writing, speaking, and listening. Students will be exposed to literature in varying levels of difficulty and will be expected to create original evaluations of the material and discuss and compare the works with others. These students should be able to converse in French at an advanced level. The target language is used at all times with few key concepts reinforced in English. Past experience has shown that students who succeed in this level have matriculated into higher-level college language courses or have received credit for the basic college language requirements.	

Spanish I	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course combines a basic foundation of Spanish conversation, vocabulary, grammar and culture. The students will read and write the language in a limited way and will speak to oral prompts at an introductory level. The culture and language of the countries where the language is spoken will also be studied.	

Spanish II	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Spanish I**	
Course Summary: This course expands upon material presented in Spanish I with the goal of providing the readiness and skills needed to study Spanish at an advanced level. Students are expected to read, write, speak, and understand material at an intermediate level. Student and instructor will use the target language with English usage based on teacher discretion.	

FOREIGN LANGUAGE CONT'D

Spanish III	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Spanish II**	
Course Summary: This course expands upon material presented in Spanish II with the goal of providing readiness and skills needed to study Spanish at increasingly advanced levels. Students are expected to read, write, speak, and understand more difficult material that will move them toward proficiency. Students will engage in basic creative writing and original conversations with an emphasis on grammar and composition. The target language will be used extensively. English is used to reinforce key concepts.	

Honors Spanish IV	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 12th	Special Notes: 1.1
Prerequisites: **Successful completion of Spanish III**	
Course Summary: This college preparatory course will refine skills in reading, writing, speaking, and listening. Students will be exposed to literature in varying levels of difficulty and be expected to discuss, compare, and write summaries. These students should be able to converse in Spanish at an advanced level. The target language is used at all times with some key concepts reinforced in English. Past experience has shown that students who succeed in this level have matriculated into higher-level college language courses or have received credit for the basic college language requirements.	

HEALTH, SAFETY, AND PHYSICAL EDUCATION

Mr. Scott Creighton	Mrs. Sandra Hack	Mrs. Gretchen Javens
Mr. Neil Green	Mrs. Rachel Kennis	Mr. Todd Stiner
Mr. Scott Sullivan		

Health 9	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: The grade nine health portion of Wellness is an 18 week course required of all ninth graders. It will help students develop skills that will enhance their wellness throughout life. Students will engage in lessons that will increase their knowledge of the importance of healthy lifestyle choices for personal health and well-being. The focus of this course will help students gain mastery of the learning proficiencies outlined in the Pennsylvania Health and Safety Academic Standards.	

Swimming	
Course Term: Quarter	Course Credit: .25
Permitted Grades:	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: In this nine-week course, students will learn how to prevent, recognize, and respond to aquatic emergencies. Students will also have the opportunities to explore different swimming techniques and to earn a boating safety certification from the Pennsylvania Fish and Boat Commission.	

HEALTH, SAFETY, AND PHYSICAL EDUCATION CONT'D

Competitive Sports	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course will focus on a more highly competitive atmosphere than the traditional physical education class. Students can expect to play hard from start to finish, combining exercise and team sport games. Students seriously committed to working hard and playing hard will appreciate this class. **Activities could include, but are not limited to; Ultimate Games, Flag Football, Soccer, Capture the Flag, Volleyball, Basketball, Tennis, and Softball**	

Lifetime Fitness	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This class is designed for students to participate in low-impact, non-contact activities that will provide a foundation for a healthy, physically active lifestyle. This class will focus on non-competitive activities that individuals can enjoy throughout their lives. Students enrolled in this class will participate in activities including but not limited to: walking, racquet sports, Frisbee, volleyball, golf, and recreational games.	

HEALTH, SAFETY, AND PHYSICAL EDUCATION CONT'D

Weight Training and Conditioning	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This elective course is designed for students interested in physical conditioning through an *intense* aerobics program. This program will improve your cardiovascular system as well as help your muscles remain flexible and strong. Through this conditioning your heart pumps blood more efficiently allowing more oxygen to get to muscles and heart. This type of conditioning improves overall health and fitness. *Due to the exhausting nature of this course, showers will be made available at the conclusion of each class. Examples of class activities would include; the timed mile run, plyometrics, steps, 8 minute abs, and calisthenics to name a few.* The second aspect of this differentiated elective course is designed for students who wish to tone or increase existing muscle mass. For the beginner student who is not familiar with or experienced in weight training, the course will focus on basic weight training techniques designed to burn fat and build muscle. Beginners will also be introduced to the major muscle groups and the exercises used to build and tone these areas. For the advanced student, the course will focus on strenuous physical activity and various training techniques and strategies designed to help students achieve their personal fitness goals. Only those who are committed to physical fitness should apply.	

Nutrition	
Course Term: Semester	Course Credit:.5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites:	
Course Summary: Nutrition is an elective course offered to 10^{th}-12^{th} graders. This course will provide students with how nutrition can affect the body both physically/mentally while striving for a long healthy life. The course will provide students with basic nutrition knowledge, identifying eating disorders, weight management, effects of nutrition on sports, along with the process of the digestive system. Students will evaluate the differences of today's eating habits, nutritional value and making decisions on the importance of healthy eating. Students will provide a log of their personal eating habits to evaluate to and identify their own strengths and/or weaknesses.	

HEALTH, SAFETY, AND PHYSICAL EDUCATION CONT'D

Fitness & Exercise Science	
Course Term: Semester	Course Credit .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites:	
Course Summary: This course is for students in grades 10th through 12th. This course will be a combination of 2 days of classroom health and 3 days of self-monitoring activities. The classroom discussion will include basic components of fitness, fitness test creation, history of sports, performance enhancing drugs, fad diets, and basic sports nutrition. The fitness experience will mainly be a walking fitness plan put in motion. The students will need to be prepared to walk for a timed distance with progression throughout the semester.	

Lifeguarding	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: No prerequisite required.	
Course Summary: This course is for any student at least 15 years of age who has passed a prerequisite swimming test. Upon successful completion of this course, the students will receive American Red Cross certification in lifeguarding, CPR for the professional rescuer, and first aid. Units of study include both performance and written assessments.	

Driver Education Theory	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is for students who are interested in receiving classroom instruction in Driver Theory as mandated by the Pennsylvania Department of Education curriculum. Upon successful completion of this course, students will be credited with 60 hours of certified Driver Education. However, this course does not include behind the wheel and on the road instruction, which may be an additional requirement for a discount through your insurance company.	

HEALTH, SAFETY, AND PHYSICAL EDUCATION CONT'D

ELIS Introduction to Fire Services	
Course Term: 16 hours	Course Credit
Permitted Grades: 11-12	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This 16-hour quarter course with a lecture/lab breakdown of 14/2 is designed to introduce new firefighters to basic information including an overview of the fire service, fire service organization, firefighter safety, personal protective equipment and terrorism awareness. This is the first of four courses in the curriculum. This course is the minimum standard for accreditation through the Pennsylvania Fire Academy. Certified trainers with the Pennsylvania State Fire Academy teach this course. Students are sponsored in this program through the support of a local fire company.	

ELFG Fire Ground Support	
Course Term: 48 hours	Course Credit
Permitted Grades: 11-12	Special Notes:
Prerequisites: **Introduction to Fire Services**	
Course Summary: This 48-hour semester course with a lecture/lab breakdown of 31/17 is designed to introduce new firefighters to fire ground operation including fire behavior, fire extinguishers, water supply, fire hose, ropes, and hazardous materials. This is the second of four courses in the curriculum and is part of the minimum standard for accreditation through the Pennsylvania Fire Academy. Certified trainers with the Pennsylvania State Fire Academy teach this course. Students are sponsored in this program through the support of a local fire company.	

ELEF Exterior Firefighter	
Course Term: 42 hours	Course Credit
Permitted Grades: 11-12	Special Notes:
Prerequisites: Introduction to Fire Services and Fire Ground Support	
Course Summary: This 42-hour semester course with a lecture/lab breakdown of 26/16 is designed to introduce new firefighters to exterior fire ground operation including building construction, ladders, communications, protective systems/sprinklers, forcible entry, and fire prevention. This is the third of four courses in the curriculum and is part of the minimum standard for accreditation through the Pennsylvania Fire Academy. Certified trainers with the Pennsylvania State Fire Academy teach this course. Students are sponsored in this program through the support of a local fire company.	

HEALTH, SAFETY, AND PHYSICAL EDUCATION CONT'D

ELIF Interior Firefighter	
Course Term: 60 hours	Course Credit
Permitted Grades: 12th	Special Notes:
Prerequisites: **Introduction to Fire Services, Fire Ground Support, Exterior Firefighter and be 18 years of age or older.**	
Course Summary: This 60-hour full year fourth level course is designed to introduce new firefighters to interior fire ground operation, including nozzles and streams, SCBA, rescue, ventilation, fire suppression, salvage, and firefighter survival. This is the fourth of four courses in the curriculum and is part of the minimum standard for accreditation through the Pennsylvania Fire Academy. Certified trainers with the Pennsylvania State Fire Academy teach this course. Students are sponsored in this program through the support of a local fire company.	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS

FACULTY

Mr. Nicholas Kloszewski	Mrs. Jennifer Gaston*	Mrs. Robin Craig
Mrs. Melinda Swauger	Mrs. Dorothea Hackett	Mr. Chris Taylor

*K-12 Department Chair

Three-Dimensional Design I	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th,10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required**.	
Course Summary: This course explores the process of sculpture and clay. This course will work with a variety of mediums such as plaster, wire, paper, and an emphasis on clay materials. Students will be working in the creative process by brainstorming, creating, editing, and critiquing art pieces. Principles of three-dimensional design such as balance, movement, emphasis, proportion, unity, and variety will be taught with each lesson.	

Three-Dimensional Design II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Three-Dimensional Design I**	
Course Summary: This advanced course allows students to work in the various mediums of sculpture such as plaster, wire, paper, and clay. Students will be concentrating on the creative process of brainstorming, creating, editing, and critiquing all art pieces. There will be a concentration on researching artists and techniques. Students are highly encouraged to bring their self-motivation and persistence with them to class.	

Three-Dimensional Design III	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Three-Dimensional Design I and II**	
Course Summary: This highly advanced course is for motivated students wishing to explore the sculpture medium of their choice. There will be an emphasis on college and career readiness, intending for the student to work on his/her portfolio. Students will be using research artists, brainstorming, creating, editing, and critiquing all art pieces. Students are highly encouraged to bring their self-motivation and persistence with them to class.	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS CONT'D

Two-Dimensional Design I	
Course Term: Semester	Course Credit: .5
Permitted Grades:9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed to introduce a variety of concepts and media used in two-dimensional art making, including acrylic and watercolor paint, collage, ink, graphite, charcoal, pastels, colored pencils, photography and digital media. Instruction will focus on the creative process and will include work in studying art history, generating original ideas, planning, production, critique and exhibition.	

Two-Dimensional Design II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Two-Dimensional Design I**	
Course Summary: This advanced course is designed to provide students with an opportunity to explore media and concepts learned in Two-Dimensional Design I, at a deeper and more thorough level. The students will also have the opportunity to select a concentration from which they will develop work for the second half of the semester. The focus of the course remains on the creative process, allowing for more independent thought and exploration of concepts and themes in the production of original work.	

Two-Dimensional Design III	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Two-Dimensional Design II**	
Course Summary: This highly advanced course is designed to meet the needs of highly motivated art students, wishing to pursue higher education in an art related field or to develop individually as a working artist. Emphasis will be placed on college and career readiness, leading to the production of a portfolio for college application and commissioned work completed within the district or community. Students will be working independently to generate ideas, research, collect inspiration and execute design plans. Students will choose a focus medium and develop highly advanced skills during the course of the year.	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS CONT'D

Foundations of Art	
Course Term: Year	Course Credit: 1
Permitted Grades: 11th, & 12th	Special Notes: 1.2 Weighted, Mt. Aloysius ART 115
Prerequisites:	
Course Summary: In this advanced art production course, we will explore such questions as; Why do humans make art? What is the relationship of media, process, and formal elements of presentation to visual communication? What is the relevance of art to the lives of the students in the class? This class is structured around the idea that seeing and art making are directly related and are skills that can be learned. In this course, students will gain a fundamental drawing base while being fostered in a conceptual climate that will lead to meaningful artistic growth for the students.	

Art Metals/Jewelry I	
Course Term: Semester	Course Credit .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: No prerequisites required	
Course Summary: This course introduces the student to the craft of designing and constructing jewelry and metal objects. Employing a step-by-step approach, the student will learn an array of techniques used to produce both 2 and 3-dimensional works, including riveting, soldering, chain making, beading, fabrication, and casting. Assignments are proficiency driven, yet, encourage creative problem solving and design. Students are required to use various tools, including jeweler's saws, hand drills, hammers butane torches and pliers, which require fine motor/fingertip work and must pass a safety test prior to handling materials. Students should also be aware that the classroom environment will be louder than average while work is being completed.	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS CONT'D

Art Metals/Jewelry II	
Course Term: Semester	Course Credit .5
Permitted Grades:9th, 10th, 11th, & 12th	Special Notes: A small fee will be required with this course
Prerequisites: Successful completion of Art Metals/Jewelry I	
Course Summary: This course provides an opportunity to apply techniques and strategies learned in Metals I to produce original, individually directed works of art. Assignments are conceptually driven and encourage creative problem solving and design. Students are required to use various tools, including jeweler's saws, hand drills, hammers butane torches and pliers, which require fine motor/fingertip work and must pass a safety test prior to handling materials. Students should also be aware that the classroom environment will be louder than average while work is being completed.	

Introduction to Art History and Appreciation	
Course Term: Semester	Course Credit: .5
Permitted Grades:9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This online class begins with the concepts of art, expression, and creativity. It answers questions What is art? What is creativity? The course explains how and why people respond to art. It also covers basic design ciples and the meanings that artists convey through their art. Student will study architecture created by people in ous cultures through history from the Stone Age through the Egyptian, Classical Greek and Roman periods, issance, Reformation and Baroque through the 21st century. The impact of technology on art will also be included.	

Music Survey	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course will introduce students to the fundamentals of creating, analyzing, and enjoying music. Students will learn the basics of music including melody, harmony, and rhythm. This course will allow students to explore a variety of musical styles such as classical, opera, ragtime, jazz, swing, folk, rock (60's, 70's, 80's, 90's), musical theater, film scores, and world music. This course is open to students in grade 9 -12.	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS CONT'D

Concert Band	
Course Term: Full Year	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This is designed for ninth through twelfth grade students who have a desire to study and perform instrumental music. Group class sessions and individual lessons will be given to students who enroll in this course and are offered in a weekly rotation. Attendance and performance at concerts and graduation is required.	

Concert Choir	
Course Term: Full Year	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed for students in grades nine through twelve who have a desire to study and perform vocal music of all styles. The course content covers vocal techniques, concepts of music as well as a wide variety of choral literature. The ability to read music is not a prerequisite although it will aid in students' ability to perform. Group class sessions and individual lessons will be given to students who enroll in this course and are offered in a weekly rotation. Attendance and performance at concerts is required.	

Concert Band/Concert Choir	
Course Term: Full Year	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed for students who want to study and perform both vocal and instrumental music. Instructors will rotate students through a shared practice schedule. The course requirements are the same as Concert Choir and Band.	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS CONT'D

Introduction to Music History	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: Independent Online Course
Prerequisites: **No prerequisite required.**	
Course Summary: This online course explores the basic elements of music that combine to create various genres of music, which impact our daily lives. It will begin with the current "pop" genre of music and how it builds on the music genres that came before it from societies of the Middle Ages through the Classical Greek, Western World, Renaissance, Baroque period, Classical period, Romantic period, and the Jazz period of the early 20th century. The course will explore how the various time-periods in history influenced the music and how music influenced the time-periods. The course will also explore various musical instruments, musical notations, and styles, as well as significant composers and musicians throughout history.	

Music Theory	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This class is designed for students in grades nine through twelve who wish to learn or expand their knowledge of the written language of music. Music Theory will explore the basics of music notation, reading notes in bass and treble clefs, rhythmic notation in simple and compound time signatures, intervals, major and minor key signatures, and scale formation. Students do not need to have prior experience in reading music, but should have an interest in learning the mechanics of written music.	

Guitar I	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: Access to a functional acoustic guitar	
Course Summary: This course is designed to introduce students in grades nine through twelve to the guitar as a melodic and accompaniment instrument. Included in the course will be a brief history of the instrument, discussion of different types of guitars and different styles of guitar music. Using *Mastering the Guitar* by William Bay and Mike Christiansen, students will learn tuning, basic music theory, scales, chords, chord construction, various accompaniment patterns and songs utilizing various styles and techniques learned.	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS CONT'D

Guitar II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, &12th	Special Notes:
Prerequisites: Access to a functional acoustic guitar and completion of Guitar I or permission of the instructor	
Course Summary: This course is designed for students in grades nine through twelve who have completed Guitar I and wish to extend their skills, or for students who already possess an equivalent level of guitar ability. Students will continue to expand upon skills mastered in Guitar I, as well as continue learning basic music theory, scales, chords, and note reading. Additional skills mastered will include bar chords, pentatonic and movable scales and chords, and soloing.	

Rock Ensemble	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed for students who wish to go beyond the traditional musical repertoire and develop musical skills in the genre of Rock 'n' Roll from early 20th century Ragtime to the popular music of today's culture. While analyzing the historical development and significance of this genre, students will also learn to perform Rock 'n' Roll in its various forms. Additional focus will be placed upon advertising and publicity for artist in the current music industry and practical knowledge for using professional audio equipment (microphones, mixers, recording software, etc.). ***This class may be repeated for credit.***	

Vocal Methods	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes: (Weighted, Mt. Aloysius, etc)
Prerequisites: **No prerequisite required.**	
Course Summary: Students will be trained on how to use their voices properly for the purposes of vocal health and developing speaking and musical skills. Students will be taught vocal warm-ups and exercises to improve various aspects of their voice. Students will also be taught sight singing and ear training. This course is designed so that students receive individual attention, allowing intensive focus on improving vocal abilities, critiquing themselves and other fellow artists, as well as preparing for PMEA district, region and all-state events, honors band, and college entrance auditions. As material prepared for the class will vary every semester depending on the student's abilities, ***this course may be repeated for credit.***	

ARTS AND HUMANITIES: VISUAL AND PERFORMING ARTS CONT'D

Musical Theater Appreciation	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, &12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed for students in ninth through twelfth grade who wish to sing and perform in the musical theatre style. Students will first study the history of musical theatre from opera through contemporary Broadway shows. This study will be coupled with script and performance analysis of professional musical theatre artists as well as a number of performances focusing on "triple threat" acting abilities (acting, singing, and dancing). Practical lessons in theatre technology will also be conducted. This course will use audio and video resources.	

Theater Arts I	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This performance-based course introduces students to acting and surveys the theater arts. Students will study aspects of building a character, recalling inner resources, creating stage presence, and performing oral interpretation. The aesthetic and the technical aspects of stagecraft, scenic design, and lighting are introduced. Participation in one of the school theater productions is required. Any student with an interest in the theater may enroll.	

Theater Arts II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Theater Arts I**	
Course Summary: This course is a more detailed study of play production building on what students mastered in Theater Arts I. Various techniques and skills from Theater Arts I such as Inner resources, stage presence, oral interpretation, and stagecraft will be exhibited. Technical aspects of the theater such as lighting, sound and set design, costuming, make-up, directing and production are included as part of the curriculum. The student will fulfill the requirements of this course in a culminating project, which requires directing and producing a 10-minute production. Participation in one of the school theater productions is required. In order to schedule Theater Arts II, students must have successfully completed Theater Arts I.	

Extracurricular Opportunities in the Arts and Humanities

-Students are invited to participate in three Major theater productions each year. These productions include an evening of one acts, a non-musical, and a musical. Students gain much experience in theater and the art as they participate in all aspects of theater production. Additionally, students are invited to meet established criteria to gain membership into the International Thespian Society Troupe 6949. Benefits include options to attend the state conference for the International Thespian Society and to be cast in the Senior Showcase, a production directed by senior students.

-Art students are able to participate in an annual school-wide art show.

DEPARTMENT AND COURSE LISTINGS

Accounting, Business, Entrepreneurship, Finance, Management, and Marketing

FACULTY
Ms. Sydney Weaver

Accounting I	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This basic accounting course is highly recommended for the student who has a variety of career objectives such as economics, finance, management, marketing, international business, accounting, should by wants to own their own business, engineering and will managing budgets, as well as those interested in law enforcement. This course develops knowledge and skills needed to serve as a foundation on which to continue the study of various aspects of a career at the high school or college level. It introduces the practice of keeping systematic records of business transactions and provides students with an understanding of how business finances are managed in our society. Emphasis is placed on basic accounting procedures, terminology, and financial information used in business.	

Accounting II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **Successful completion of Accounting I**	
Course Summary: This course is designed for the student who has successfully completed Accounting I and wishes to pursue a career in business, accounting, running and managing a business or project. It provides students the opportunity to apply and expand the basic principles of Accounting I to more advanced accounting systems and corporate structures. Students will analyze profitability, operating results and efficiency of operations as well as partnerships and corporations. Emphasis is placed on accounting concepts and procedures for merchandising businesses set up as corporations. Various procedures are completed using accounting software, and Microsoft Excel.	

Accounting, Business, Entrepreneurship, Finance, Management, and Marketing

Creative Advertising	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is recommended for students who wish to use their creativity and learn about advertising. Media advertising and visual merchandising are components of promotion in marketing. Students will learn to develop, create, and design advertisements and visual displays for the retail workplace in this semester course. Students will be required to plan and complete a professional display within the high school setting as well as design and create various media advertisements. Along with these hands-on activities, students will have the opportunity to experience quest speakers, projects, and community resources	

Introduction to Business Ownership	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course is designed for the student who wishes to learn how to carry out the entrepreneurial process and obtain experience in owning his/her own business. Students will operate a real business in the school that utilizes Junior Achievement lessons and fun activities. Students will also create a business plan to be used in a competition similar to the TV show Shark Tank. This course will review the demands of constantly changing market place, the impact of the Internet, legal issues, and managing employees.	

Introduction to Business and Leadership	
Course Term: Semester	Course Credit .5
Permitted Grades: 9th, 10th, 11th, 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: Thinking about trying a business class?? This is the place to start. Students will explore areas of business including marketing, business law, accounting, supply chain management, leadership, business communications, career research, human resources, business management, and etiquette. Students engage themselves in interactive multimedia and case studies. Students going into nearly any career choice can learn valuable information about the way companies are run. Students will participate in a variety of different projects and real-world simulations to make the class as realistic as possible. Objectives include: How to properly communicate in business in regards to handshakes, body language, and speaking skills, Professional dress in business, Proper business etiquette, the 4 P's of marketing, advertising and sales demonstrations, consumer buying habits, how to market a professional sports team, career opportunities in the world of business, leadership skills necessary for the work world, qualities of an efficient manager, ethical decision making in business, Corporate social responsibility	

Accounting, Business, Entrepreneurship, Finance, Management, and Marketing

Retail Management & Marketing	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, 12	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: Retail businesses are found in every community. The field of marketing includes some of the highest paying occupations in business. This course is designed to introduce students to the nature and scope of retail merchandising to help them acquire the skill and knowledge essential to perform a variety of retail activities, to understand what is required in retail management or retail business ownership, and business etiquette training. Marketing includes a full range of tools, ranging from product and service planning to marketing-information management to social media. Students will learn how to leverage different social media platforms in order to utilize them in the business world. The course will cover Instagram, Twitter, Pinterest, Facebook, Google Plus, LinkedIn, YouTube, Vine, and blogging.	

MANUFACTURING AND WOOD TECH

FACULTY
Mr. Robert Bateman

Wood Tech I	
Course Term: Semester	Course Credit: .5
Permitted Grades: 9th, 10th, 11th, & 12th	Special Notes:
Prerequisites: **No prerequisite required.**	
Course Summary: This course teaches the basics of woodworking where one required project is produced. The course stresses safety through the proper use of tools, machines and finishes. Aspects of technology safety are integral to this course.	

Wood Tech II	
Course Term: Semester	Course Credit: .5
Permitted Grades: 10th, 11th, & 12th	Special Notes: A small fee will be required with this course
Prerequisites: **Successful completion of Wood Tech I**	
Course Summary: This course is designed for the student who wishes to develop the basic woodworking skills introduced in Wood Technology I. Many woodworking products will be created leading up to the skills necessary for the completion of major woodworking projects.	

Wood Tech III	
Course Term: Full Year	Course Credit: 1
Permitted Grades: 11th & 12th	Special Notes: A small fee will be required with this course
Prerequisites: **Successful completion of Wood Tech II**	
Course Summary: This course is for the student with advanced woodworking skills who wishes to continue the use of those skills to produce major projects that include larger pieces of furniture such a cabinet or table. Career opportunities in the woodworking industry will also be explored.	

MANUFACTURING AND WOOD TECH CONT'D

Manufacturing	
Course Term: Full Year	Course Credit
Permitted Grades: 11th & 12th	Special Notes: A small fee will be required with this course
Prerequisites: Wood Tech III	
Course Summary: This course will introduce and expose advanced students to the career skills pertaining to the processing and production of goods in a factory. Students will learn how to draw blueprints, market their product, and mass produce their product with strategies used in a factory.	

SPECIAL EDUCATION

FACULTY

Mrs. Lacey Lydick	Mrs. Heidi Woods
Mrs. Patti Micknis	Mr. William Barton
Mrs. Jessica Arthurs	Mrs. Kelly McCall
Mrs. Gretchen Clark	Mr. Brian Clinger
Ms. Audrey Null	Mr. Daniel Minns
Ms. Nicole Gralla	

Learning Support:

Learning support classes in English, math, science, and social studies are available to give instructional support to the student who needs academic help. The student must meet state guidelines to qualify for special education programs. Where possible, the student is mainstreamed into regular classes. Support classes are available to those who qualify because of a learning disability including learning support classes in required subjects, as needed. Learning support teacher inclusion in some mainstreamed classes and a resource room are also provided.

Emotional Support:

Emotional support classes are available for those who meet state guidelines. Students are mainstreamed as their needs indicate.

Speech/Hearing:

Speech and hearing specialists are available to help students with these disabilities.

Pupil Enrichment Program (PEP):

The Pupil Enrichment Program is a Gifted Support Program designed for students who are tested, identified, and in need of Gifted Individualized Educational Plans. Students involved in PEP at DAHS are provided with one-on-one mentoring in order to develop individualized schedules which may include honors courses, Advanced Placement courses, Dual Enrollment courses, and distance learning courses. PEP students are also encouraged to participate in enrichment programs, events and trips. Many of these offerings are focused on college, career, and leadership development.

DEPARTMENT AND COURSE LISTINGS

English As A Second Language

FACULTY

Mrs. Sophie Riddle
Mrs. Cheri Shannon

English as a Second Language:

English as a Second Language is part of the curriculum; it replaces English planned instruction required under Chapter 4. Students at the beginner/introductory level receive instruction a maximum of two hours per day. These students enter the school with little or no understanding of English. Students at the intermediate level receive a maximum of two and a minimum of one hour of instruction per day. These students have mastered a vocabulary of stock words and phrases, as well as have basic interpersonal language and vocabulary derived from their experiences and environment. Students who are considered advanced receive a minimum of one hour of instruction per day. These students have mastery of day-to-day language skills and have writing skills similar to native speakers of English, with some deficiencies. The remainder of the school day is spent with the regular education teacher.

SPECIAL PROGRAMS, ACTIVITIES AND SPORTS

Special Programs

Student Assistance Program: The Student Assistance Program (SAP) provides students and families with assistance in accessing school and community services/resources to help with mental health issues, drug and alcohol issues, suicide ideations, or any other problems a student may be experiencing. SAP does not diagnose, treat, or refer students for treatment. However, through an assessment process, SAP may provide families with information and resources in order to secure the proper services. SAP's goal is to help eliminate barriers so students will succeed in school.

Academic Support Classroom: Alternative programs are available to students whose needs cannot be met in a regular program. The teacher directing this program is Mr. Michael Mancuso.

Summer Programs: Summer programs are offered for a variety of reasons: credit recovery courses, remediation courses to help students move towards proficiency on state tests, and college preparation courses to help students gain skills to be successful at the college level. Many of the course offerings are done in an online format.

Work Release: Work Release is designed for seniors who are interested in gaining job experience while still in high school. Class schedule and graduation requirements take first priority. This involves regular attendance, passing all classes, and abiding by school regulations. A minimum of four classes must be scheduled for each semester and include all classes needed for graduation. Also, Work Release students must have senior status. The school assumes no responsibility for transportation, safety, employment problems or appropriate insurance. Work Release applications are to be initiated by the student and must be completed at least one week prior to the start of the semester for which the student qualifies for the program. All applications must be approved and signed by the parent/guardian, school counselor, student and employer. Students participating in Work Release must abide by the following additional regulations:

1. **Sign out daily in the main office at the end of the last scheduled class period.**
2. **Maintain an average of 20 hours of work weekly (Monday – Sunday) and provide necessary documentation from employer every 2 weeks.**
3. **RETURN TO SCHOOL FULL TIME IF WORK IS TERMINATED FOR ANY REASON.**
4. **REMAIN OFF THE JOB WHEN ABSENT FROM SCHOOL.**
5. **Administration may terminate Work Release for any discipline issues.**
6. **REMAIN OFF OF SCHOOL PROPERTY during work release hours unless given permission from the high school administrator.**
7. **Maintain passing grades in all subjects. If a student has any failing grades he/she will be required to stay additional periods until all grades are brought up to passing status.**
8. **A faculty member may contact the work site to confirm that the student is complying with the Work Release guidelines**
9. **Student must notify his/her school counselor immediately if he/she quits the job, is terminated, and/or changes to a new employer.**

Final approval is granted by the administration. Consideration will be given to the student's educational goals, attendance, scholastic record and school citizenship. If problems arise in any of these areas, Work Release may be terminated. Work Release is a privilege.

SPECIAL PROGRAMS, ACTIVITIES AND SPORTS

Student Activities and Sports:

A wide range of student activities and sports may be available to students at the DuBois Area High School bi-monthly. These may include curriculum related clubs, tutoring and sports.

Student Clubs and Activities

Art Club	Science Team	Sign Language
Busted	DAHS Spirit	STEM Club
Student Council	DECA	NHS
Prom Committee	Peer Mediation	Chess
Drama/ITS Chorus	Bio Club	Book Club
Heroscape	Interact	Broadcasting
Mock Trial	Board Games	Zumba
Environmental Team		

FALL	WINTER	SPRING
Football	Wrestling	Softball
Girls' & Boys' Golf	Gymnastics	Baseball
Girls'& Boys' Soccer	Swimming/Diving	Boys' Volleyball
Girls' Volleyball	Cheerleading	Boys' Tennis
Cheerleading	Co-ed Rifle	Girls' & Boys Track
Girls' Tennis	Girls' & Boys' Basketball	
Girls'& Boys' Cross Country	Competition Cheer	

Varsity sports in the DuBois Area School District follow the rules established by The Pennsylvania Interscholastic Athletic Association (PIAA). To be eligible for interscholastic athletic competition, a student must pursue a curriculum defined and approved by the school district as a full-time curriculum. The Pennsylvania Interscholastic Athletic Association (PIAA) requires that a student be passing four credits or the equivalent each week in order to be eligible to participate in interscholastic competition. In addition, at each report card period, the student must be passing four credits or the equivalent to compete for the fifteen school days following the issuance of report cards. For fall sports, the student must have earned four credits for the final report card the previous year. If not, the student will be ineligible the first fifteen school days of the new school year.

GRADING PROCEDURES FOR DUBOIS AREA HIGH SCHOOL

GRADING SYSTEM PERCENT GRADING

A = 93% - 100

B = 85% - 92%

C = 76% - 84%

D = 70% - 75%

F = 69% & Below

1. Report cards will contain the course name, instructor's name, letter grade, percentage, and coded comments.
2. Grades will be assigned through a variety of assessments, homework, and classroom activities.
3. Dual enrollment course grades for conversion purposes are as follows:
A = 96% B = 89% C = 80% D = 72% F = 60%
(There are also +/- course grade conversions as well; i.e. A- = 93, etc.)
4. Progress reports will be completed 23 days into the marking period and provided for any student who is failing, in danger of failing, or whose grade has changed significantly (a drop of 15 or more percentage points).

SKYWARD GRADING SYSTEM

Skyward will be available to all parents who provide the district with a password for security reasons. Parents will be able to view their child's line in a grade book anytime.

Skyward will calculate a nine-week grade from the scores provided by the teacher calculated to two decimal points. Teachers exercise an override option to keep a grade at 100% or from going below the minimums. The minimum grades for the marking periods apply only to full year classes and are as follows:

The 1st Marking Period of a Class – 60%
The 2nd Marking Period of a Class – 50%
The 3rd Marking Period of a Class – 50%
The 4th Marking Period of a Class – No Minimum

GRADING PROCEDURES FOR DUBOIS AREA HIGH SCHOOL

Grading Calculations for Academic courses

Teachers may choose to use a mid-term exam grade and/or a final exam grade. The system rounds .5 upward.

The following calculations are used for final averages.

1. **If a full-year class only contains 4 marking period grades, the four marking period grades are each worth 25% of the final grade.**

2. **If a full-year class contains 4 marking period grades plus a final exam grade, the four marking period grades are each worth 22.5% and the final exam is worth 10% of the final grade.**

3. **If a full-year class contains 4 marking period grades, a mid-term grade and a final grade, the 4 marking period grades are each worth 20% and the midterm and final exam grades are each worth 10% of the final grade.**

4. **In the case of a semester class containing only 2 marking period grades, the 2 marking period grades are each worth 50% of the final grade.**

5. **In a semester class that has 2 marking period grades and an exam grade (midterm – first semester and final exam – second semester), the marking period grades are each worth 40% and the midterm/final exam grade is worth 20% carried to the 2nd decimal point and rounded to the whole number.**

6. **Semester <u>averages</u> are calculated by using the same formulas as semester classes. Semester <u>averages</u> are meant as information devices for parents and teachers. They are not used in calculating final averages on year-long classes.**

7. **Quarter classes are recorded as both marking period grades and final grades.**

8. **No override is available for final course grades.**

Honor Roll

A Honor Roll
Grade average of percentage grades must be 93.0% or higher with no individual grade less than 76%.

B Honor Roll
Grade average of percentage grades must be 85.0% or higher with no individual grade less than 76%.

GRADING PROCEDURES FOR DUBOIS AREA HIGH SCHOOL

Grading Calculations for Academic Courses Cont'd

Grading Calculations for Honor Roll:

Grades from dropped classes are calculated in term GPAs and may affect eligibility for the A and B Honor Roll. Dropped classes do not appear on report cards but each report card term GPA includes the grades from any dropped classes that term. The grades from dropped classes will not affect the end of the year class rank calculations. Class ranks will only be calculated once each year, at the end of the school year. Honor Roll is based on the non-weighted average of the grades for a particular marking period. The formula used is as follows:

Class Grade x Credit Value = Quality Points.

Total quality points are divided by total credits attempted that marking period = marking period average.

-Students must have a 93% average for A Honor Roll and no individual grade less than 76%.
-Students must have an 85% average for B Honor Roll and no individual grade less than 76%.

Graduating with Honors (Weighted Average)

Students who maintain an average of 99.5% or higher over their four years at DuBois Area High School will graduate with *Summa Cum Laude Honors*.

Students who maintain an average of 95.5% to 99.4% over their four years at DuBois Area High School will graduate with *Magna Cum Laude Honors*.

Students who maintain an average of 92.5% to 95.4% over their four years at DuBois Area High School will graduate with *Cum Laude Honors*.

All final averages will be rounded to the nearest whole percent. Senior honor status will be determined at the conclusion of the 3rd nine weeks. This also includes dual enrollment classes.

Grading Calculations for Transcripts

Non-weighted Average
Class Grade x Credit Value = Quality Points

Total Quality Points are divided by **Total** Credits Attempted = Non-weighted Cumulative Average

Weighted Average

Class Grade x Credit Value = Quality Points
Quality Points x Weighted Value = Weighted Quality Points
Total Weighted Quality Points are divided by **Total** Credits Attempted = Weighted Cumulative Average

Jefferson County-DuBois Area Vocational-Technical School Courses

The emphasis of Jeff Tech's career and technical education programs is to prepare students for entry job placement or admission to a continuing educational program after high school. Each of the major career areas described are approved by the state of Pennsylvania and are available to high school students enrolled in the ninth, tenth, eleventh or twelfth grade. Students may enroll at Jeff Tech as full time students or under special circumstances as part time students.

Automotive Collision Repair Technology: The Automotive Collision Repair Technology Program provides students with the training necessary to repair damaged vehicles. Instruction includes the replacement of parts that are beyond repair to restore vehicles back to factory specifications. The latest technology and repair procedures require knowledge, and skilled craftsmanship. Projects and class work use the latest technologies, equipment and shop practices. Recognized certifications available to students upon completion of this course include S/P2 Safety, PPG Refinish, PA State Inspection and I-CAR. Instruction and "hands-on" practice is available to the student in the areas of: Sheet metal straightening and repair including body plastic, fiberglass and composite plastic body parts. Automotive panel removal and replacement procedures, sectioning procedures, Gas Metal Arc Welding (MIG Welding, resistance spot welding, plasma cutting, frame and uni-body diagnosis, measuring and repair; front end and computerized four-wheel alignment systems, overall paint, spot and blending procedures; glass removal and installation procedures; collision damage estimating using computerized estimating system. After completing the training process, the student will participate in live work application of learned skills.

Drafting, Design and Engineering: The Drafting, Design and Engineering Program instructs students in the use of industry standard software while using one of the most up-to-date drafting laboratories in the area. Additionally students will be immersed in the Engineering and Design Process. Through this part of the pathway students will work with material and mechanical properties, the fundamentals of physics and be immersed in projects that encompass our other technical concentrations. This will produce students marketable to a wide range of industry. This program prepares students to step into the workplace, or it gives them an edge if choosing to further their education in the drafting, design and engineering fields.

Automotive Technology: The Automotive Technology program is designed to give student instruction in the development of various learning applications involving repair and maintenance of internal combustion engines, including ignition, cooling, fuel injection, fuel systems, computer diagnostics, and electrical systems. Troubleshooting and determining the cause of a mechanical malfunction is an integral part of a mechanic's task. Job opportunities exist nationwide for the highly-trained individuals who can competently analyze and repair today's complex automotive systems. *This shop is NATEF certified.*

Building and Property Maintenance: The Building and Property Maintenance program provides instruction in the commonly used framing system for houses and other structures. Students are trained from the "ground" level as they receive instruction in blueprint reading and sketching, cost estimating, site layout, foundations framework, and exterior and interior finishing. Exterior finishing includes siding, soffit, fascia, roof coverings, doors and windows. Interior finishing consists of wall coverings, ceilings, door and window trim, moldings, stair construction, and selection of proper insulation materials. Machine Operation and tool maintenance **are taught to students with a strong emphasis placed on safety throughout all operations.** ***National Center for Construction Education and Research Certification pending***

Jefferson County-DuBois Area Vocational-Technical School Courses cont'd

Cosmetology: The Cosmetology curriculum provides the required 1250 hours of specialized training in the care and treatment of the hair, skin, and nails to obtain a cosmetology license. Curriculum areas include, haircutting, hairstyling, perming, hair coloring, facials, massage, manicuring, pedicuring, artificial nail enhancements, skin disorders and diseases, properties of the hair and scalp, principles of design, scalp care, shampooing, and conditioning, professional ethics, chemistry, electricity, anatomy, salon business and salon management. Employment opportunities are limitless, as cosmetologists elect to become hairstylists, hair colorists, nail technicians, estheticians, hair or skin care specialists, makeup artists, lab technicians, beauty sales representatives, product demonstrators, platform artists, cosmetology teachers, salon managers, or salon owners. This program is approved by the Pennsylvania State Board of Cosmetology. *Certified by the Commonwealth of Pennsylvania Department of State, Bureau of Professional and Occupational Affair*

Culinary Arts: Students in the Culinary Arts program learn to select, order, prepare, and manage large quantities of food. Students develop and practice skills in cooking, specialty meat cutting, baking, maintaining kitchen equipment, sanitation and safety. Service and management experience is gained by working in the restaurant dining room as cashiers, host/hostesses, and waiters/waitresses. *ACCESS, Certification by the American Culinary Foundation*

Health Assisting: The Health Assisting program is a comprehensive introduction to the vast career opportunities in the healthcare field. Students will be researching and developing career paths in health care that interest them. Introduction to the many health field career clusters include nursing, medical assisting, mental health, Pharmacy, rehabilitation, dental care, imaging, laboratory and alternative medicine. Instruction includes procedures for the examination, treatment and care of patients in the nursing home and hospital setting. Students enrolling in this program will be prepared for the Pennsylvania Nurse Aide Competency Exam through classroom lecture, lab and off-site clinical experience. Extensive instruction will be provided in anatomy, physiology, and medical terminology. Nutrition, ethics, basic bedside care, treatment room preparation, instrument sterilization, laboratory procedures, medical office procedures, and related patient care duties are all part of the Health Assisting program. *This program requires students to wear a standard uniform.*

HVAC/Plumbing: The HVAC (Heating, Ventilation and Air Conditioning) program provides the fundamentals of installation, repair, and maintenance of equipment and accessory parts used for heating, air conditioning, and cooling systems. Students learn basic electricity as it applies to the electrical power source and activities used in air conditioning, heating, and refrigeration units.

Information Technology Academy: The IT Academy technology training is divided into three pathways: Digital Media Arts, Computer Network Engineering, and Computer Technology. Students will receive training in one of the three pathway areas but have the opportunity to gain experiences and knowledge from the other pathways within the academy. Each of these pathways offers exciting and challenging career opportunities. They are:

I. **Digital Media Arts:** Students in DMA receive extensive training in the area of web design, digital sound & video, digital photography, multimedia design, graphics and animation as well as live web streaming, event production, ROM & DVD production, digital communication and interactive interface design through their direct exposure to industry-standard software such as Flash, Fireworks, Dreamweaver, After Effects, Adobe Premiere and much more. The DMA **program**

Jefferson County-DuBois Area Vocational-Technical School Courses Cont'd

Digital Media Arts Cont'd: prepares students to apply web scripting, graphics application and other authoring tools to the design, editing and publishing of documents, images, graphics, sound and multimedia products on the World Wide Web in the most popular formats available.

II. Computer Network Engineering: The Computer Network Engineering curriculum is designed to ensure that the successful student has the important knowledge and skills necessary to manage, maintain, troubleshoot, install, operate and configure basic network infrastructure, describe networking technologies, basic design principles, and adhere to wiring standards and use testing tools. Major topics covered include network technologies, network media and topologies, network devices, network management, network tools and network security. Students also receive direct experience in the administration of network servers which includes: user and group management, server security, network shares, network operating systems, user and workstation security and remote connectivity. Students selected for the Computer Network Engineering program will work extensively as interns for Jeff Tech to keep the schools network infrastructure and workstations maintained and operational. This in-depth program is designed to meet the requirements of the CompTIA Network+ test.

III. Computer Technology: The Computer Technology program provides the necessary training that gives students a solid foundation in programming, game design, A+ Essentials, and app development. Students work in software packages such as Microsoft Office, Adobe Photoshop, Adobe Flash, and Corel Draw. Students also gain experience working with robotics, gaming technology, game design process, animation, and troubleshooting computers. Hardware and software configuration are components of the course as well. In their junior and senior year, students have an opportunity to work as a virtual intern and choose cartoon animation, video game designer or web game design as their area of study. They will learn valuable life skills by interacting with their boss, co-workers, and customers. Students will become knowledgeable in learning what it takes to be successful in the workforce.

IT Academy graduates will be prepared for employment opportunities in a variety of fields, including computer operators, programmers, computer support personnel, data processing clerk, database management, video game designer, information center or processing specialist, technical support, and help desk support.

Machine Shop: The Machine Shop program is designed to prepare students for entry-level employment in the following areas: Machine Operator, Toolmaker Apprentice, Machinist Apprentice, Equipment or Tool Sales, Tool & Cutter Grinder, and Mold Maker Apprentice. Instruction is provided in setting up and operating mills, lathes, grinders, and CNC equipment, shop mathematics, blueprint reading, and sketching. As a result of working from blueprints and writing up specifications, the student will develop accuracy and the competence required to operate a full variety of industrial type machine tools. *Certified by the National Institute for Metalworking Skills*

Welding/Metal Fabrication Technology: Welding/Metal Fabrication program offers entry-level welder skills and knowledge in welding environment safety, fabrication tools and machinery operations, in-demand welding and cutting processes, welding metallurgy, welding blueprint reading, design techniques for welding fabrication, layout techniques for welding, fitting and tacking techniques, custom fabrication project methods, weld quality and inspection techniques and welding certification testing. Skill-building experience is provided in the following welding processes: oxyacetylene, shielded metal arc, gas metal arc, gas tungsten arc, flux cored arc and submerged arc welding. Career employment may be obtained in a wide variety of Welding and Fabrication Environments such as Construction, Product Production, Pipelines, Equipment Repair, Auto Racing, Custom Vehicle Fabricators and Artistic Metal Sculpturing. Underwater Welding, Welding Instructor, Welding Inspector and Welding Engineer are also attainable with extended training. *American Welding Society Entry-Level Welder Certification*

Jefferson County-DuBois Area Vocational-Technical School Courses Cont'd

Diesel and Heavy Equipment: Individuals will apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. The program includes diesel engine mechanics, suspension and steering, brake systems, electrical systems, preventive maintenance inspections, drive trains, HVAC systems, hydraulics, pneumatics, diesel generators and is capped off with State of Pennsylvania Vehicle Safety Inspection and CDL License training.