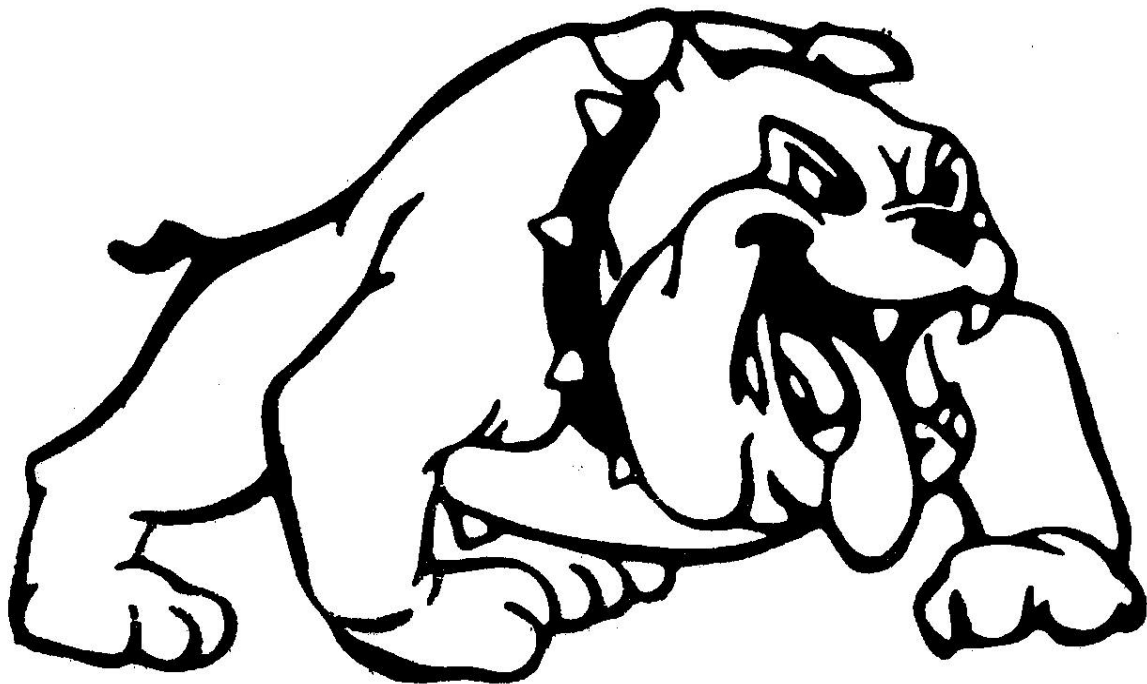


***2025-2026***

**Student Academic  
Registration Handbook**



**Meadville Area Senior High  
School**

# CRAWFORD CENTRAL SCHOOL DISTRICT MEADVILLE AREA SENIOR HIGH SCHOOL ACADEMIC REGISTRATION HANDBOOK

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**MEADVILLE AREA SENIOR HIGH SCHOOL  
SCHEDULING PROCEDURES  
2025 - 2026**

Registration at MASH begins with teachers discussing course selections, course sequences and prerequisites with their classes to assist students in the registration process. Final teacher recommendations will stand unless a change is made as the result of parent/teacher/counselor discussions.

Counselors will be in classes to discuss registration and distribute academic registration handbooks. Handbooks are also online. Students will be instructed to discuss selections with teachers, counselors, and parents.

On a date determined, students will register for classes throughout the school day. Absentees will register the next day.

Students will meet with their counselor on a one-to-one session in the spring to finalize schedules.

Any changes **after the schedule have been finalized** may be considered before the current school year ends. **Counselors and Principals will only make schedule changes during the following dates:**

Counselors:                      Counselors are in session until June 18, 2025.  
    Counselors return August 11, 2025.

Principals:                        Principals are available in July 2025 to mid-August 2025 by appointment.

## SCHEDULE CHANGE POLICY

Students are given ample time to study course selections and alternates. The guidance counselors are available to meet individually with each student to discuss selections that best meet the academic and career needs for each student. Student signatures at registration indicate agreement with the courses selected. Schedule change dates and policies will be strictly adhered to for the 2025-2026 school year. Students will also have an opportunity to change their course selection by scheduling an appointment in the summer to discuss other options.

Students and parents are free to subsequently discuss the schedule with guidance counselors, but there will be an effort to keep changes to a minimum. A final schedule will be given to every student on the first day of school in homeroom.

**After the classes begin, students have a period of 5 class days for a semester class and 10 class days for a yearlong class to request to add-drop classes. These requests may or may not be granted depending on the reasons, student academic and behavior history, and seat availability.** Once the drop/add period has closed students will receive a mark of WF (Withdraw and Failing) on their transcript. **Parental involvement is required. Student requests to change teachers will not be considered. Valid reasons for a schedule change are listed below.**

During the year a student may be withdrawn from a course for discipline reasons or at administrator discretion will receive a WF for the course.

Students will not automatically be removed from classes due to failing grades. Careful consideration will be given to the reasons for the failure. As a general rule, students will not be scheduled into courses at semesters due to failure in a course the first semester. Please see the guidance counselor for credit make-up courses and summer school options.

Students withdrawing from cyber courses and re-enrolling at MASH will have current cyber grades earned transferred to their class to reflect current progress.

**Approved reasons for a change in schedule are as follow:**

1. Scheduling error.
2. Improper level or sequence as determined by the teacher, counselor, or administrator. Any change under this provision requires the notification of the student, teacher of the subject dropped, teacher of the subject added, principal, counselor, and a parent.
3. A change of career plans or college admissions requirement that necessitates the need for the addition of a course which will better prepare the student for that career or college admissions. Any change for this purpose must involve a parental conference.
4. To accommodate a CTC schedule.

|   |
|---|
| <h2 style="margin: 0;">GRADUATION REQUIREMENTS</h2> <p style="margin: 0;"><b>Students must meet all the following requirements:</b></p> |
|---|

**SPECIFIC PLANNED COURSE REQUIREMENTS**

The specific planned courses required to meet the graduation requirements of the Meadville Area Senior High School are as follows:

|   | <b>Credits<br/><u>MASH</u></b> | <b>Credits<br/><u>CTC</u></b> |
|---|--------------------------------|-------------------------------|
| English   | 4                              | 4                             |
| Social Studies*   | 3-4                            | 3-4                           |
| Science*  | 3-4                            | 3-4                           |
| Math*   | 3-4                            | 3-4                           |
| Computer Technology Based Elective<br>(Such as Spreadsheet, Database, Computer applications)                          | 2                              | .5**                          |
| Humanities<br>(Such as Art, Music, Dance, Drama, Theater, World Languages,<br>Family and Consumer Science, Tech. Ed.) | 2                              | 2                             |
| Phys. Ed/Health .5/year   | 2.5                            | 2.5                           |
| Electives   | 4.5                            | 4.5                           |
| <b>TOTAL:</b>   | <b>26 credits</b>              | <b>26 credits</b>             |

\* All students must earn a total of 11 combined credits in Math, Science, and Social Studies. Those credits can be earned in any 3-4 combination. It is recommended that students complete at least (1) Math credit in 9th, 10th, and 11th grades.

\*\* Crawford Technical Center students must demonstrate computer competency associated with the academic standards of their respective CTC curriculum. The CTC is responsible for documentation of required proficiency.

|                                     |  |
|-------------------------------------|--|
| <b>Credits Needed to Move From:</b> | <b>9th to 10th Grade - 5.0 Credits</b>   |
|                                     | <b>10th to 11th Grade - 11.0 Credits</b> |
|                                     | <b>11th to 12th Grade - 18.0 Credits</b> |

**Pathways to Graduation**

Act 158 of 2018 and Act 6 of 2017 prescribed multiple pathways for students to meet Pennsylvania’s requirements for graduation. These requirements start with the Class of 2023. Students must participate in the Keystone Exams to fulfill federal requirements in ESSA. Students must meet the criteria of one of the pathways to achieve a diploma.

**Keystone Proficiency Pathways**

|  |  |   |
|--|--|---|
| <b>Advanced or Proficient in Algebra 1</b> | <b>Advanced or Proficient in Biology</b> | <b>Advanced or Proficient in Literature</b> |
|--|--|---|

**Keystone Composite Pathway**

|   |                                |   |
|---|--------------------------------|---|
| <b>At least 1 Keystone Exam is Advanced or Proficient</b> | <b>No Score is Below Basic</b> | <b>Composite Keystone Score is 4452</b> |
|---|--------------------------------|---|

Meet CCSD grade requirement (60%) for Keystone courses in which the student scored Basic or Below Basic and one piece of evidence.

**Career and Technical Education Pathway**

|   |  |   |
|---|--|---|
| Industry-based competency certification (i.e., NIMS or NOCTI) | Likelihood of industry-based competency assessment success at CTC. This must be determined by the end of grade 11. | Readiness for continued engagement in CTE concentrator Program of Study at CTC. This must be determined by the end of grade 11. |
|---|--|---|

**Alternative Assessment Pathway**

Meet CCSD grade requirement (60%) for Keystone courses in which the student scored Basic or Below Basic and one piece of evidence.

|  |   |
|--|---|
| Alternative Assessment – PDE established score on any assessment | ACT Composite-21<br>ACT WorkKeys NCRC-Gold Level<br>ASVAB AFQT – 31<br>PSAT/NMSQT – 970<br>SAT-1010 |
|--|---|

*Continued on next page*

Alternative Assessment Pathway- Continued

|   |                |                          |                                       |
|---|----------------|--------------------------|---------------------------------------|
| AP Exam – 3 or higher on exam related to each content area in which the student scored Basic or Below Basic | <b>Algebra</b> | <b>Biology</b>           | <b>Literature</b>                     |
|   | AP Calculus AB | AP Biology               | AP English Language and Composition   |
|   | AP Calculus BC | AP Chemistry             | AP English Literature and Composition |
|   | AP Chemistry   | AP Environmental Science |                                       |
|   | AP CS A        | AP Physics 1             |                                       |
|   | AP CSP         | AP Physics 2             |                                       |
|   | AP Physics 1   | AP Physics C             |                                       |
|   | AP Physics 2   |                          |                                       |
|   | AP Physics C   |                          |                                       |
|   | AP Statistics  |                          |                                       |

Dual Enrollment-passing grade in a course related to each Keystone Exam in which the student scored Basic or Below Basic

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Pre-Apprenticeship Program-successful completion of a Labor and Industry registered and Crawford Technical Center program.

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Acceptance into a four-year Institution of Higher Education for college-level coursework.

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Evidence-Based Pathway

Meet CCSD grade requirement (60%) for Keystone courses in which the student scored Basic or Below Basic and three pieces of evidence.

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Evidence: One or more

SAT subject Test – 630 or better

ACT WorkKeys – Silver letter or better

AP Exam – 3 or better on any exam

Dual Enrollment – passing any course

Industry-based competency certification (i.e., NIMS or NOCTI)

Acceptance into a four-year Institution of Higher education for college-level coursework

Evidence: One or Two only

Advanced or Proficient on any Keystone Exam

Service-Learning Project

Letter guaranteeing full-time employment or military enlistment

Internship, Externship, or Cooperative Education Program

NCAA Division II academic requirements for college bound student athletes, with a minimum 2.0 GPA

## GRADUATION RANKING

The district moved in 2021 to the Latin System, which is a college-style honors system. This system will recognize all students with weighted GPA's and will no longer recognize the distinctive titles of valedictorian and salutatorian. Any student with a weighted GPA can be recognized with the following honors at the end of their senior year:

|                 | MASH        | CJSH        |
|-----------------|-------------|-------------|
| Summa Cum Laude | 5.400-5.600 | 4.754-4.852 |
| Magna Cum Laude | 5.100-5.399 | 4.609-4.706 |
| Cum Laude       | 4.700-5.099 | 4.366-4.526 |

## KEYSTONE EXAM POLICY (EFFECTIVE CLASS OF 2022)

Beginning with the Class of 2022, students will be required to show proficiency on the Pennsylvania State Keystone Exams in Algebra, Literature and Biology in order to graduate. There are alternate pathways that may be considered if student's test at least twice and are not able to achieve a score of proficiency. It is highly recommended that students take these exams seriously to not hinder their chances of graduation.

Pathways to graduate are:

- Scoring proficient or advanced on each Keystone Exam – Algebra I, Literature, and Biology.
- Earning a satisfactory composite score on the Algebra I, Literature, and Biology Keystone Exams.
- Earning a passing grade on the courses associated with each Keystone Exam, and satisfactorily complete one of the following: an alternative assessment (SAT, PSAT, ACT, ASVAB, Gold Level ACT Work Keys), advanced coursework (AP, IB, concurrent enrollment courses), pre-apprenticeship or acceptance in a 4-year nonprofit Institution of higher education for college-level coursework.
- Earning a passing grade on the courses associated with each Keystone Exam and pass NOCTI or NIMS assessment in an approved Career and Technical Education concentration.
- Earning a passing grade on the courses associated with each Keystone Exam and demonstrate readiness for postsecondary engagement through three pieces of evidence from the student's career portfolio aligned to student goals and career plan.

# KEYSTONE EXAM COURSES

## *Meadville Area Senior High School*

### Algebra Keystone Exam

Algebra I

Practical Algebra B

General Math 10

General Math 10E

### Literature Keystone Exam

Academic English 10

Accelerated English 10

General English 10

General English 10 E

### Biology Keystone Exam

Honors Biology

Academic Biology

General Science 9

General Science 9E

## CONTACT

930 North Street Meadville, PA 16335

Phone: (814) 336-1121

Fax: (814) 337-5835

[www.craw.org](http://www.craw.org)

## GENERAL INFORMATION

Grades: 9-12

Total Enrollment: 728

Length of Semester: 18 weeks

Class Periods: 40 minutes

CEEB Code: 392535

## ADMINISTRATION

Superintendent: Dr. Jennifer A. Galdon

Principal: John C. Higgins

Assistant Principal: Stacey L. Walsh

Assistant Principal: Jason G. Fisher

## SCHOOL COUNSELORS

Grade 12: Gina M. Foulk

Grade 11: Sabrina S. Richards

Grade 10: Susan M. Herberg

Grade 9: Sabrina S. Richards (A-L)

Susan M. Herberg (M-Z)

## AP/HONORS COURSES OFFERED

**AP Courses:** Biology, Calculus AB, Chemistry, Computer Science A & Computer Science Principles, English Literature and Composition, European History, French, Physics I & II, Spanish, Statistics, and US History

**Honors Courses:** Biology, Chemistry

**Accelerated Courses:** English, Math, Science, Social Studies, French, and Spanish

# Meadville Area Senior High School Profile 2024-2025

Meadville Area Senior High School is a part of the Crawford Central School District. The school is accredited by the Middle States Association of Colleges and Secondary Schools and is a comprehensive public high school located in Northwest Pennsylvania. Meadville is a small city in a rural setting, located 40 miles south of Erie and 85 miles north of Pittsburgh. Meadville is home to Allegheny College. There were 186 students in the 2024 graduating class. Of these students, 55% will be attending 4- or 2-year schools, 40% will be permanently employed, and 5% will be serving in the military.

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## GRADE POINT AVERAGE AND RANKING

Meadville Area Senior High school does not report class rank. Grade point average (GPA) is calculated at the end of each school year using only final grades in the five major academic areas: English, Mathematics, Science, Social Studies, and World Languages. Grading is on a 4.0 scale. Students may earn additional quality points through weighted Honors and AP courses. AP courses are weighted by an A=6.0, B=5.0, C=3.0, and a D=1.5. Honors courses are weighted by an A=5.0, B=3.75, C=2.5, and a D=1.25. The Grading Scale is as follows: A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0).

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## MINIMUM GRADUATION REQUIREMENTS (26 CREDITS)

4 credits of English (1 credit each year)  
11 combined credits of Math, Science, and Social Studies  
2 credits of Computer Technology Based Electives  
2 credits of Humanities  
2.5 credits of Physical Education (all 4 years)  
4.5 credits of Electives

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## PERFORMANCE STATISTICS FOR CLASS OF 2024

Average SAT scores: 1079  
Average ACT scores: 26.2  
Students Participating in AP Courses: 107  
Number of AP Exams Taken: 192  
AP Students with Scores of 3 or Higher: 62

## ACADEMIC RANKING

| A=6.00   |  |  | B=5.00  |  |  | C=3.00  |  |  | D=1.50 |  |  | F=0 |  |  |
|--|--|--|---|--|--|---|--|--|--------|--|--|-----|--|--|
| 01407 AP English Lit & Comp  |  |  | 12307 AP Computer Science Principal             |  |  | 06105 French IV   |  |  |        |  |  |     |  |  |
| 04303 AP United States History   |  |  | 03306 Honors Biology                            |  |  | 06106 French V  |  |  |        |  |  |     |  |  |
| 04304 AP European History  |  |  | 03309 AP Biology                                |  |  | 06205 Spanish IV  |  |  |        |  |  |     |  |  |
| 02302 Geometry - Accel.  |  |  | 03307 Honors Chemistry                          |  |  | 06206 Spanish V   |  |  |        |  |  |     |  |  |
| 02301 Algebra II - Accel.  |  |  | 03310 AP Chemistry                              |  |  |   |  |  |        |  |  |     |  |  |
| 02303 Elem Functions   |  |  | 03308 AP Physics I                              |  |  |   |  |  |        |  |  |     |  |  |
| 02304 AP Calculus AB   |  |  | 03311 AP Physics II                             |  |  |   |  |  |        |  |  |     |  |  |
| 12305 AP Computer Science A  |  |  | 03313 Ind. Study Calculus Based Physics         |  |  |   |  |  |        |  |  |     |  |  |
|  |  |  | 02214 AP Statistics                             |  |  |   |  |  |        |  |  |     |  |  |
|  |  |  |   |  |  |   |  |  |        |  |  |     |  |  |
|  |  |  |   |  |  |   |  |  |        |  |  |     |  |  |
| A=5.00   |  |  | B=3.75  |  |  | C=2.50  |  |  | D=1.25 |  |  | F=0 |  |  |
| 01401 Accelerated English 9  |  |  | 02208 Intro Trig/Alga. II                       |  |  | 06102 French II   |  |  |        |  |  |     |  |  |
| 01404 Accelerated English 10   |  |  | 02206 Pre-Calculus - Acad.                      |  |  | 06103 French III  |  |  |        |  |  |     |  |  |
| 01405 Accelerated English 11   |  |  | 02209 Academic Calculus                         |  |  | 06201 Spanish I   |  |  |        |  |  |     |  |  |
| 01406 Accelerated English 12   |  |  | 02210 Academic Statistics                       |  |  | 06202 Spanish II  |  |  |        |  |  |     |  |  |
| 04108 Civics and Government - Accel.   |  |  | 12304 Introduction to JAVA                      |  |  | 06203 Spanish III   |  |  |        |  |  |     |  |  |
| 04205 19th Century US History - Accel.   |  |  | 03202 Academic Biology                          |  |  | 17107 Electrical Occupations (CCCTC) (Senior Yr.)           |  |  |        |  |  |     |  |  |
| 04401 World Governments and Economics  |  |  | 03207 Anatomy and Physiology                    |  |  | 13203 Precision Machining (CCCTC) (Senior Yr.)              |  |  |        |  |  |     |  |  |
| 04400 Cultural Anthropology  |  |  | 03205 Academic Chemistry                        |  |  | 10003 Computer & Info. Sci. (CCCTC) (Senior Yr.)            |  |  |        |  |  |     |  |  |
| 02204 Geometry - Acad.   |  |  | 03125 Introduction to Data Science              |  |  | 14053 Heating, Ventilation & Air Cond. (CCCTC) (Senior Yr.) |  |  |        |  |  |     |  |  |
| 02207 Algebra I - Acad.  |  |  | 03206 Academic Physics                          |  |  | 14063 Veterinarian Science (CCCTC) (Senior Yr.)             |  |  |        |  |  |     |  |  |
| 02305 Algebra II - Acad.   |  |  | 06101 French I                                  |  |  | 21003 Drafting & Design (CCCTC) (Senior Yr.)                |  |  |        |  |  |     |  |  |
| A=4.00   |  |  | B=3.00  |  |  | C=2.00  |  |  | D=1.00 |  |  | F=0 |  |  |
| 01402 Academic English 9   |  |  | 02106 Selected Topics                           |  |  | 01503 General English 11                                    |  |  |        |  |  |     |  |  |
| 01302 Academic English 10  |  |  | 03218 Forensic Science                          |  |  | 02503 General Math 11                                       |  |  |        |  |  |     |  |  |
| 01303 Academic English 11  |  |  | 03115 Physical Science with Chemistry           |  |  | 04503 General Social Studies 11                             |  |  |        |  |  |     |  |  |
| 01304 Academic English 12  |  |  | 01501 General English 9                         |  |  | 03503 General Science 11                                    |  |  |        |  |  |     |  |  |
| 04107 Civics and Gov. – Acad.  |  |  | 02501 General Math 9                            |  |  | 01504 General English 12                                    |  |  |        |  |  |     |  |  |
| 04203 19 <sup>th</sup> Century US History Acad.  |  |  | 04501 General Social Studies 9                  |  |  | 02504 General Math 12                                       |  |  |        |  |  |     |  |  |
| 02401 Consumer Math  |  |  | 03501 General Science 9                         |  |  | 04504 General Social Studies 12                             |  |  |        |  |  |     |  |  |
| 04308 20th Century World History - Acad.   |  |  | 01502 General English 10                        |  |  | 03504 General Science 12                                    |  |  |        |  |  |     |  |  |
| 02105 Practical Geometry   |  |  | 02502 General Math 10                           |  |  |   |  |  |        |  |  |     |  |  |
| 02102 Practical Algebra A  |  |  | 04502 General Social Studies 10                 |  |  |   |  |  |        |  |  |     |  |  |
| 02103 Practical Algebra B  |  |  | 03502 General Science 10                        |  |  |   |  |  |        |  |  |     |  |  |
| <b>Courses that are more skill-related than academic are not included in the ranking process</b> |  |  |   |  |  |   |  |  |        |  |  |     |  |  |
|  |  |  |   |  |  |   |  |  |        |  |  |     |  |  |
| 01601 Mythology  |  |  | 05119 Ceramics I                                |  |  | 08130 Physical Education – 9 <sup>th</sup> grade            |  |  |        |  |  |     |  |  |
| 01810 Creative Writing   |  |  | 05121 Ceramics II                               |  |  | 08132 Personal Wellness                                     |  |  |        |  |  |     |  |  |
| 01812 Public Speaking  |  |  | 05123 Ceramics III                              |  |  | 08133- Lifetime Wellness                                    |  |  |        |  |  |     |  |  |
| 01805 Introduction to Journalism   |  |  | 05132 2-Dimensional and 3-Dimensional Art       |  |  | 08135 Physical Education - Hybrid                           |  |  |        |  |  |     |  |  |
| 01807 Journalism I   |  |  | 05127 Jewelry & Metalsmithing                   |  |  | 08204 Health Education                                      |  |  |        |  |  |     |  |  |
| 01808 Journalism II  |  |  | 05125 Commercial Art                            |  |  | 08134-Competitive Sports                                    |  |  |        |  |  |     |  |  |
| 01809 Journalism III   |  |  | 05130 Independent Study                         |  |  | 22300 G.A.T.E. 1.0  |  |  |        |  |  |     |  |  |
| 018125 Yearbook  |  |  | 05134 Independent Study                         |  |  | 22301 G.A.T.E. .5   |  |  |        |  |  |     |  |  |
| 11101 Broadcast Media Arts   |  |  | 12204 Accounting I                              |  |  | 22306 G.A.T.E. Independent Study                            |  |  |        |  |  |     |  |  |
| 11102 Digital Film Production  |  |  | 12205 Accounting II                             |  |  | 22401 Innovation Class: Project Invent                      |  |  |        |  |  |     |  |  |
| 11104 Digital Film Production II   |  |  | 12117 Business & Personal Law                   |  |  | 22501 Social Skills   |  |  |        |  |  |     |  |  |
| 12101 Computer Applications  |  |  | 13111 Visual Communications: Graphics Design I  |  |  | 22505 – AM - 22504- PM Transitional Occupation              |  |  |        |  |  |     |  |  |
| 12125 Introduction to Marketing  |  |  | 13114 Visual Communications: Graphics Design II |  |  | 13201-13202 Precision Mach                                  |  |  |        |  |  |     |  |  |
| 12119 Personal Financial Literacy  |  |  | 13401 Wood Technology I                         |  |  | 10001-10003 Comp/Info Science                               |  |  |        |  |  |     |  |  |
| 12121 HTML Code & Web Design   |  |  | 13404 Wood Technology II                        |  |  | 21001-21003 Draft/Design Tech/CADD                          |  |  |        |  |  |     |  |  |
| 12102 Reality Check-21st Century Success!  |  |  | 13406 Basic Construction                        |  |  | 17105-17106 Electronic Tech                                 |  |  |        |  |  |     |  |  |
| 12303 Comp. Prog II Independent Study  |  |  | 13305 Machining                                 |  |  | 20115-20116 Auto Collision Tech                             |  |  |        |  |  |     |  |  |
| 05303 Concert Choir yr. 1.0  |  |  | 13308 Advanced Machining                        |  |  | 15050-15051 Sports Medicine-Rehabilitative Science          |  |  |        |  |  |     |  |  |
| 05306 Concert Choir Sem. .5  |  |  | 13301 Intro to Welding                          |  |  | 20103-20104 Auto Technology                                 |  |  |        |  |  |     |  |  |
| 05320 Treble Choir 1.0   |  |  | 13304 Welding Design & Fabrication              |  |  | 22154 Diversified Occupation Co-op AM                       |  |  |        |  |  |     |  |  |
| 05329 Treble Choir .5  |  |  | 13311 Mechanical Engineering Design I           |  |  | 22155 Diversified Occupations Co-op PM                      |  |  |        |  |  |     |  |  |
| 05205 Orchestra 1.0  |  |  | 13313 Mechanical Engineering Design II          |  |  | 19100-19101 Cosmetology                                     |  |  |        |  |  |     |  |  |
| 05208 Orchestra .5   |  |  | 13314 Mechanical Engineering Design III         |  |  | 20106-20107 Diesel Technology                               |  |  |        |  |  |     |  |  |
| 05220 Concert Band 1.0   |  |  | 22204 Child Development                         |  |  | 17002-17003 Carpentry                                       |  |  |        |  |  |     |  |  |
| 05223 Concert Band .5  |  |  | 22206 Parenting                                 |  |  | 16052-16053 Culinary Arts & Restaurant Mgmt.                |  |  |        |  |  |     |  |  |
| 05203 Music Theory   |  |  | 22208 Foods I                                   |  |  | 17101-17102 Electrical Occupations                          |  |  |        |  |  |     |  |  |
| 05218 Modern Band 1.0  |  |  | 22211 Foods II                                  |  |  | 14001-14002 Health Occupations                              |  |  |        |  |  |     |  |  |
| 05219 Modern Band .5   |  |  | 22214 Textiles & Apparel I                      |  |  | 13206-13207 Welding   |  |  |        |  |  |     |  |  |
| 05105 Art I  |  |  | 22217 Textiles & Apparel II                     |  |  | 14050-14051 Heating, Ventilation & Air Cond. (HVAC) Tech.   |  |  |        |  |  |     |  |  |
| 05107 Art II   |  |  | 22221 Money & Relationships                     |  |  | 14060-14061 Veterinarian Science                            |  |  |        |  |  |     |  |  |

## SERVICES

### Guidance Services

The mission of the Crawford Central Secondary School Counseling program is to provide a comprehensive, developmental counseling program addressing the academic, career, and personal/social development of all students. The professional school counselor collaborates and consults with the staff, parents, and the community to promote and advocate success of the students.

Students and/or parents wishing to visit a counselor may contact the secretary in the guidance office for an appointment.

### School Health Services

The school health program is set up to take care of accidents and illness that occur during school hours. The program is not responsible for definitive treatment. We do have treatment protocols.

When a student finds it necessary to see the nurse, she/he must first secure a pass from the teacher before reporting to the medical room. Report DIRECTLY to the nurse's office. Failure to do so will be considered a class cut.

If the school nurse determines that a student is ill and should be sent home, a parent, guardian, or designated emergency person must be contacted so that parental permission can be obtained to release the student from school. It is the responsibility of the parents to provide transportation home. A student that has driven to school and becomes ill may drive home if the school nurse feels that he or she is well enough to drive and if the parent approves.

No student is permitted to be excused from class to drive a sick student home except by special permission from a principal and permission from all involved parents.

State law prohibits school personnel from giving medication or doing treatments to students in school unless ordered in writing by a physician. This requirement also pertains to inhalers used to treat asthma. Students who use an inhaler in school are required to report to the nurse's office with each use. Students must register all medications in the health room with the nurse. Written permission from the parent for the medication is required.

Vision tests, height, and weight measurements are done annually on all students. All pupils in grade 11 and others who have a hearing problem receive an audiometric test.

Physical examinations are required for juniors and for students moving from other school districts into Crawford Central School District without health records. These examinations may be done by a private physician or by the school physician. Proper forms are provided by the school nurse.

Anyone having a special health problem, i.e., diabetes, epilepsy, or a heart condition is urged to discuss this with the nurse so that he/she will receive appropriate medical attention during the school day.

Immunization requirements: Meningitis B second dose required for all 12<sup>th</sup> grade students.

## Media Center

The Meadville Media Center provides access to and instruction in the use of print and non-print materials including information technology. Our goal is to provide an atmosphere and facility that encourages our students to become effective users of ideas and information and to afford students opportunities to be critical thinkers, life-long learners, and discriminating decision makers.

The Media Center opens at 8:00 a.m. and is available after school until 4:00 p.m. The Media Center has an atmosphere that provides an opportunity for collaboration and relaxation in an atmosphere conducive to academics. Students may sign out and return books at any time and may, with appropriate behavior, spend their study hall time in the Media Center.

The Media Center collection is curriculum-based to support classwork and promotes reading and literature appreciation by providing exciting titles for recreational reading. There are approximately 20,000 volumes in the Media Center.

Students will be given a student ID card each year when pictures are taken. All seniors must have their pictures taken to receive an ID card. **Students are expected to use their ID cards from the previous year until new ones are issued for the current year.**

All students may spend class time in the Media Center receiving information literacy and technology skills. In addition, students and teachers may make an appointment with the media specialists for individualized instruction on any aspect of Media Center use.

## Honor Roll

A High Honors Award will be awarded if the student achieves a 95% or higher combined average of classes that meet (5) days per week.

An Honor Roll Award will be awarded if the student achieves an 83-94% combined average of classes that meet (5) days per week.

Students who are awarded either the High Honors or Honor Roll Award must achieve at least a 70% in every class.

High Honors and Honor Roll will be calculated using a non-weighted grading scale.

Courses that will be considered for High Honors and Honor Roll must meet five days per week.

# ENGLISH LANGUAGE ARTS COURSES

## English Language Arts- Grade 9

### 01402 ACADEMIC ENGLISH 9

1 credit

A = 4

The course is designed for the student who plans to pursue post-secondary, military, or career. Emphasis is on grammar, composition, literature, and research. In grammar, students will be required to work with verbs, nouns, and modifiers. In composition, the students will be required to understand the structure of and write narrative, descriptive, persuasive, and compare/ contrast paragraphs. In literature, the students will be required to know, comprehend, apply, interpret, and analyze fiction, nonfiction, poetry, and drama. **A research project/ paper is required to pass the course.**

*\*NCAA approved course*

Time will also be spent planning and organizing the students' educational and occupational futures.

#### MATERIALS MAY INCLUDE:

*Romeo and Juliet*

*No Promises in the Wind*

*The Outsiders*

*Write Source 9*

*Vocabulary for Achievement Introductory Course*

*Literature: The Reader's Choice*

*The Contender*

*The Sun is Also a Star*

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### 01401 ACCELERATED ENGLISH 9

1 credit

A = 5

The course is designed for the student who plans to pursue a college education. The student should be reading at or above grade level and be writing free of mechanical errors and in complete sentences. Emphasis is on composition, grammar, literature, and research. In grammar the student will work with various functions of nouns, verbs, adjectives, adverbs, prepositional phrases, clauses, and verbals. In composition the student will be required to write multi-paragraph narrative, descriptive, persuasive, and compare and contrast essays. In literature, the student will be required to know, comprehend, apply, interpret, and analyze fiction, nonfiction, poetry, and drama. **A summer assignment is a requirement for the course. A research project/ paper is required to pass the course. It is highly recommended that students taking this course will have passed Accelerated English 8 with an 85% or higher.**

*\*NCAA approved course*

Time will also be spent planning and organizing the students' educational and occupational futures.

#### MATERIALS MAY INCLUDE:

*Romeo and Juliet*

*Great Expectations*

*Red Badge of Courage*

*The Fault in Our Stars*

*The Outsiders*

*The Sun is Also a Star*

*Write Source 9*

*Vocabulary for Achievement First Course*

*Literature: The Reader's Choice*

## English Language Arts- Grade 10

01302 **ACADEMIC ENGLISH 10**

1 credit

A = 4

This year long course is specifically designed for the student who plans to pursue a four-year college education. Emphasis is on grammar, composition, literature, vocabulary, oral presentation, and research. In grammar, the students will be required to work with conjunctions (coordinating, subordinating and correlative), verbs (parallel tense, active and passive voice), pronouns (usage, agreement, and case) and misplaced modifiers. In composition, the students will be required to understand the difference between formal and informal writing; and write narrative, informational, persuasive, and compare, and contrast essays. In literature, the students will be required to know, comprehend, interpret, analyze, and evaluate fiction, nonfiction, poetry, and drama. **A research project/ paper is required to pass the course.**

*\*NCAA approved course*

MATERIALS MAY INCLUDE:

*Julius Caesar*

*The Pearl*

*The Lord of the Flies*

*Animal Farm and Related Readings*

*Roll of Thunder, Hear My Cry*

*The Pigman*

*Plague Year*

*Writer Source 10*

*Steps in Composition*

*Vocabulary for Achievement First Course*

*Real Essays*

*Writing Clear Essays*

*Runner*

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01404 **ACCELERATED ENGLISH 10**

1 credit

A = 5

This year long course is specifically designed for the student who intends to enroll in Advanced Placement courses and plans to pursue a college education. Emphasis is on grammar, composition, literature, vocabulary, oral presentation, and research. In addition, this course examines the English language and how it affects our thoughts and actions. In grammar, the students will be required to work with conjunctions (coordinating, subordinating and correlative), verbs (parallel tense, active and passive voice), pronouns (usage, agreement, and case) and misplaced modifiers. In composition, the students will be required to understand the difference between formal and informal writing; and write narrative, informational, persuasive, definition, descriptive, literary criticism, process, cause, and effect, and compare, and contrast essays. In literature, the students will be required to know, comprehend, interpret, analyze, synthesize, and evaluate fiction, nonfiction, poetry, and drama. **A summer reading is a requirement for the course. A research project/ paper is required to pass the course. It is highly recommended that students taking this course will have passed Accelerated English 9 with an 85% or higher.**

*\*NCAA approved course*

MATERIALS MAY INCLUDE:

*The Merchant of Venice*

*Anthem*

*Nineteen Eighty-Four*

*A Brave New World*

*Write Source 10*

*Vocabulary for Achievement Second Course*

*Real Essays*

*Real Writing*

*Language in Thought and Action*

*Unbroken*

*Runner*

## English Language Arts- Grade 11

### 01303 ACADEMIC ENGLISH 11

1 credit

A = 4

This year long course is specifically designed for the student who plans to pursue a college education. Emphasis is on grammar, composition, American literature, vocabulary, oral presentation, and research. During the course, the student is asked to compare themes in art and music to literary themes to develop a keener understanding of his/ her culture and other cultures. In grammar, the students will recall grammar from previous years and be required to work with ambiguous pronouns and faulty comparisons. In composition, the students will be required to understand the difference between formal and informal writing, and write narrative, informational, persuasive, and compare and contrast essays. In literature, the students will be required to know, comprehend, interpret, analyze, synthesize, and evaluate fiction, nonfiction, poetry, and drama. **A research project/ paper is required to pass the course.**

*\*NCAA approved course*

#### MATERIALS MAY INCLUDE:

*The Crucible*

*The Taming of the Shrew*

*Of Mice and Men*

*The Adventures of Huckleberry Finn*

*A Raisin in the Sun*

*Write Source (orange level)*

*Literature: Timeless Voices and Timeless Themes*

*Models for Clear Writing*

*The Great Gatsby*

*A Streetcar Named Desire*

*A Separate Peace*

*To Kill a Mockingbird*

*The Miracle Worker*

*Death of a Salesman*

*Vocabulary for Achievement Third Course*

*Writing Clear Essays*

*Twelfth Night*

*Glencoe: American Literature*

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### 01405 ACCELERATED ENGLISH 11

1 credit

A = 5

This year long course is specifically designed for the student who intends to enroll in Advanced Placement courses and plans to pursue a college education. Emphasis is on grammar, composition, American literature, vocabulary, oral presentation, and research. The course is designed to emphasize the connection between American literature across the ages and the students' modern day lives and world views, as well as current events. In grammar, the students will recall grammar from previous years and be required to work with ambiguous pronouns and faulty comparisons. In composition, the students will be required to write narrative, informational, persuasive, literary analysis, cause, and effect, and compare, and contrast compositions. In literature, the students will be required to know, comprehend, interpret, analyze, synthesize, and evaluate fiction, nonfiction, poetry, and drama within a historical context through writing and critical discussion. **A summer reading is a requirement for the course. A research project/ paper is required to pass the course. It is highly recommended that students taking this course will have passed Accelerated English 10 with an 85% or higher.**

*\*NCAA approved course*

#### MATERIALS MAY INCLUDE:

*The Taming of the Shrew*

*The Great Gatsby*

*The Scarlet Letter*

*The Magnificent Ambersons*

*Ethan Frome*

*The Adventures of Huckleberry Finn*

*The Grapes of Wrath*

*To Kill a Mockingbird*

*Literature: Timeless Voices, Timeless Themes*

*A Raisin in the Sun*

*Glencoe: American Literature*

*All My Sons*

*A Streetcar Named Desire*

*The Crucible*

*Unbroken*

*Write Source (orange level)*

*Vocabulary for Achievement Fourth Course*

*The American Experience: Quest for Identity*

*Twelfth Night*

*Writing Clear Essays*

*Models for Clear Writing*

## English Language Arts- Grade 12

### 01304 ACADEMIC ENGLISH 12

1 credit

A = 4

This year long course is specifically designed for the student who plans to pursue a college education. Emphasis is on grammar, composition, British literature, vocabulary, oral presentation, and research. During the course, the student is asked to compare themes in art and music to literary themes to develop a keener understanding of his/ her culture and other cultures. In grammar, the students will recall grammar from previous years and be required to work with ambiguous pronouns and faulty comparisons. In composition, the students will be required to understand the difference between formal and informal writing, and write narrative, informational, persuasive, and compare and contrast essays. In literature, the students will be required to know, comprehend, interpret, analyze, synthesize, and evaluate fiction, nonfiction, poetry, and drama. **A research project/ paper is required to pass the course.**

*\*NCAA approved course*

#### MATERIALS MAY INCLUDE:

*Hamlet*

*Night*

*The Bean Trees*

*British Literature: Traditions and Change*

*Vocabulary for Achievement Fifth Course*

*Adventures in English Literature*

*Macbeth*

*Frankenstein*

*The Good Earth*

*Write Source 12*

*Impact*

*Modern World Literature*

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### 01406 ACCELERATED ENGLISH 12

1 credit

A = 5

This year long course is specifically designed for the student who plans to pursue a college education. Emphasis is on grammar, composition, world literature, vocabulary, oral presentation, and research. The literature read will examine the tension between personal values and social responsibilities. In grammar, the students will recall grammar from previous years. In composition, the students will be required to understand the difference between formal and informal writing; and write narrative, informational, persuasive, cause and effect, literary criticism and compare and contrast essays. In literature, the students will be required to know, comprehend, interpret, analyze, synthesize, critique, and evaluate fiction, nonfiction, poetry, and drama through writing and critical discussion. **A summer reading is a requirement for the course. A research project/ paper is required to pass the course. It is highly recommended that students taking this course will have passed Accelerated English 11 with an 85% or higher.**

*\*NCAA approved course*

#### MATERIALS MAY INCLUDE:

*Macbeth*

*Antigone*

*The Importance of Being Ernest*

*All Quiet on the Western Front*

*Cry, the Beloved Country*

*Frankenstein*

*British Literature: Traditions and Change*

*Vocabulary for Achievement Sixth Course*

*Adventures in English Literature*

*Hamlet*

*Cyrano de Bergerac*

*A Tale of Two Cities*

*The Joy Luck Club*

*Far From the Madding Crowd*

*Watership Down*

*Write Source 12*

*Modern World Literature*

This college-level full year course is concerned primarily with understanding and analyzing literature. Referring to the literature studied, students develop both oral and written compositions throughout the year. **Summer reading and analysis assignments and research-based papers are a requirement for this course.**

*\*NCAA approved course*

OBJECTIVES: The AP student will:

1. develop criteria for evaluating fiction and non-fiction
2. support opinions by referring to specifics within fiction and non-fiction passages
3. use Advanced Placement writing rubric to evaluate essays and research papers.

OBJECTIVES: The AP student will:

Literature:

1. analyze literature: its use of literal and figurative language; its characters and themes
2. describe the structure of a literary work
3. explain the relationship between a work's structure and its meaning
4. compare literature from different periods for points of view, development of character, plot, and style of writing
5. explain how the differences in literature reflect the differences in societies

Analysis:

1. explain the role of effective language in creating tone in prose and poetry
2. build generalizations from an analysis of details
3. analyze and explain the relative importance of elements within particular literary works

Writing:

1. demonstrate a sensitivity to nuances in the use of language: connotation, paradox, irony, shifts in syntax, tone, point of view, etc.
2. independently produce research papers which also contain the student's evaluation of critical information

Speaking:

1. explain his/her opinion by referring to specific elements of a literary work
2. organize and participate in group presentations which define and expand a specific purpose
3. orally present critical analysis of literature individually and in small groups

MATERIALS MAY INCLUDE:

*The Mayor of Casterbridge*  
*Lord Jim/Heart of Darkness*  
*Waiting for Godot*  
*Hamlet*  
*Beowulf*  
*Slaughterhouse-Five*

*Wuthering Heights*  
*Crime and Punishment*  
*Rosencrantz and Guildenstern Are Dead*  
*MacBeth*  
*The Canterbury Tales*  
*Poetry: An Introduction*

Multiple Choice Questions in Preparation for the AP English Literature and Composition Examination

**PREREQUISITES FOR AP ENGLISH LITERATURE & COMPOSITION:**

1. Must pass Accelerated English 11 with a grade of 90% or better:
2. Must have achieved proficient or advanced on Keystone Literature exam by the end of sophomore year.

Any exceptions to the prerequisites will be reviewed by a course instructor and may require additional teacher recommendations. Any request for such a review should be made before May 1st. The student making the request should explain, in writing, why he/she lacks these prerequisites and why he/she wishes to participate in AP English Literature & Composition.

## LANGUAGE ARTS ELECTIVES

01601 **MYTHOLOGY** (Grades 10-12)

1/2 credit

non-ranked

### **ELECTIVE CREDIT ONLY-NOT AN ENGLISH CREDIT**

Mythology uses works which rely on mythological, Biblical, historical, and literary allusions for their developments and purposes. The course will be organized in units which focus on patterns in mythological literature. Library and communication skills (written and oral) will be required to complete the course.

*\*NCAA approved course*

OBJECTIVES: The students will:

1. analyze the roles of allusions in communication
2. identify and explain various mythological, Biblical, historical, and literary allusions
3. identify and analyze patterns and archetypes used within an artist's work
4. analyze an artistic work and explain how allusions, patterns, and archetypes support an author's purpose
5. identify and analyze techniques used within a literary work
6. complete unified and coherent fiction and nonfiction compositions in response to class material
7. use Keystone Composition rubric to evaluate paragraphs and essays

MATERIALS MAY INCLUDE:

*Introduction to Mythology*  
*Mythology, Edith Hamilton*  
*The Old Man and the Sea*  
Student journals

*Myths and Their Meaning*  
*When the Legends Die*  
*The Odyssey*  
Selected readings relevant to mythology

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01810 **CREATIVE WRITING** (Grades 9-12)

1/2 credit

non-ranked

### **ELECTIVE CREDIT ONLY - NOT AN ENGLISH CREDIT**

Creative Writing is a course elective designed for students who possess a genuine interest in developing their creative talents in writing. Although the focus is obviously on communicating through writing, the development of the students' thought processes and imagination is also inherent. The personal beliefs and opinions expressed allow the students to better understand themselves and others. The course further fosters a sense of personal accomplishment and confidence, and in addition, an appreciation of this medium of self-expression.

Several modes of writing are exposed. Among those most stressed are poetry (including odes and limericks), short stories and flash fiction. The students will compose various creative presentations of work. Optional writing activities, including plays and mythology, are possibilities for students with interest in such writing. A final project allows students to pursue the mode of writing with which they most desire to work.

Because of a less formal classroom atmosphere, the students are afforded ample time to work on an individual basis. It is imperative the students possess the necessary discipline to carry an idea from its initial stage completely to fruition. In general, this course endeavors to formulate a climate conducive to the development and expression of ideas in writing.

*\*NCAA approved course*

OBJECTIVES: The students will:

1. develop their creative ability
2. develop an awareness of and demonstrate the use of the elements and devices inherent in various forms of creative writing
3. develop the ability to express themselves
4. develop critical thinking skills
5. develop their own writing style
6. develop an awareness of the need for and the value of revision
7. develop an appreciation of the various modes of creative writing
8. develop the ability to work independently

MATERIALS MAY INCLUDE: Teacher-generated material and student-written samples

**ELECTIVE CREDIT ONLY - NOT AN ENGLISH CREDIT**

Journalism should focus on the "collecting, writing, editing, interpretation, and evaluation of news and information." (English Journal, November 1986) This course is designed to meet those goals. In addition, students are encouraged to become knowledgeable in the history and relevance of our first amendment freedoms and to understand the impact of the media on society today. With the added incentive of computer technology in the classroom, students can gather information, write and edit their stories, and print the finished product with software especially designed for school publications. (English Journal, January 1986) Students learn photography basics and create a photo essay. With a combination of theory and practice, students learn about the limitations and responsibilities, as well as the personal satisfaction, that are all a part of the field of Journalism. This course prepares students to become part of a scholastic newspaper staff and is a prerequisite to Journalism I. If a student receives a "C" or below in Intro to Journalism, they cannot move on to Journalism I.

*\*NCAA approved course*

OBJECTIVES: The students will:

1. discuss limitations and responsibilities of the first amendment, freedom of the press
2. recognize and write news, features, opinion articles, and sports
3. conduct interviews
4. become familiar with the daily paper content and format
5. become aware of the importance of the newspaper in everyday life
6. recognize the role of advertising in the marketplace
7. learn techniques of layout and design for school paper
8. photograph using basic photography techniques

MATERIALS MAY INCLUDE:

Meadville Tribune/ Erie Daily Times  
Journalism Today!

Computer Programs: Microsoft Word, Google Suite  
Digital Camera

**ELECTIVE CREDIT ONLY - NOT AN ENGLISH CREDIT**

(Students will receive a maximum total of three credits for Journalism courses)

The chief emphasis of this course will be to produce The *BARK* newspaper using the fundamentals of journalistic writing. Students will conduct interviews and write news, sports, features, opinion articles, and take pictures. In addition, the students will become familiar with the production stages from beginning to end, including the use of Microsoft Word, Google Suite, and other online resources, including the software used to publish The Bark online. Along with producing and publishing the newspaper, the students will also promote and sell advertising for the online publication. **Prerequisite: must have had a "B" or better in Acad. English or a "B" or better in Accel. English in the 9th grade. Intro to Journalism or teacher recommendation is required. If a student receives a "C" or below in Intro to Journalism, they cannot take Journalism I**

OBJECTIVES: The students will:

1. read newspapers more intelligently
2. gain insight in the correct methods of communication
3. utilize basic knowledge of all aspects of journalism as a means of channeling and developing particular interests and talents
4. appreciate the rights and responsibilities guaranteed by the First Amendment
5. practice digital citizenship when using the internet for journalistic research and writing.
6. produce the high school newspaper

MATERIALS:

Press Time - Julian Adams, Kenneth Strahon  
Scholastic Journalism - Earl English, Clarence Hach  
Journalism Today!

Meadville Tribune  
Erie Daily Times  
Sno Sites

Computer Programs: Microsoft Word, Google Suite

01808 **JOURNALISM II** (Grades 11-12) 1 credit non-ranked

Course description same as Journalism I except for prerequisite.

**Prerequisite: Must have completed Journalism I with an 80% or better.**

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01809 **JOURNALISM III** (Grade 12) 1 credit non-ranked

Course description same as Journalism I & II except for prerequisite.

**Prerequisite: Must have completed Journalism I and II with an 80% or better.**

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08125 **YEARBOOK** (Grades 11-12) 1 credit non-ranked

**ELECTIVE CREDIT ONLY – NOT AN ENGLISH CREDIT**

The chief emphasis of this course will be to produce the MASH Yearbook by learning about and using Yearbook 360 software. Students will create yearbook pages that include student based yearly activities in the form of clubs, sports, extra-curricular, prom and graduation. Students will learn to take pictures and create photo albums for student life activities. In addition, the students will become familiar with the production stages from beginning to end of producing a yearbook, including the use of Microsoft Word, Yearbook 360, and the Internet. Along with producing the yearbook, the students will also promote and sell advertising.

**Prerequisite: Must have had a “B” or better in Academic English or teacher recommendation is required.**

OBJECTIVES: The students will:

1. learn to create photo layouts and digital albums
2. gain insight into producing a product through software, photography, and multimedia platforms
3. learn to set and meet deadlines
4. learn to creatively problem solve and work as a team
5. produce the high school yearbook

## COMMUNICATIONS COURSES

11101 **BROADCAST MEDIA ARTS** (Grade 12 only)

1 credit

non-ranked

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

This year-long course is designed to inspire the student to become a highly effective communicator in a digital age. Students in Media Arts will be exposed to a wide variety of digital media including television, computer, radio, and internet platforms. The application of these media forms will produce both daily announcements to the school highlighting the pertinent news of the day and a weekly broadcast that more deeply explores the student experience. The format of the course will employ an advanced democratic student-centered model that places the learner at the center of the experience and asks the instructor to become a facilitator rather than the focus of the learning. Students will work on advancing techniques in leadership, collaboration, and independent thought and action to work as a team to produce broadcasts of high quality. Essential to the student experience in this course is the ability to be self-motivated and open to new learning styles as the course breaks from the traditional model of education to facilitate deep thought and understanding. The course becomes as much about how to learn as it is about what is learned as students will come to produce high-quality products while expending their abilities to be master communicators in the 21<sup>st</sup> century.

**Prerequisite: Digital Film Production I**

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11102 **DIGITAL FILM PRODUCTION I** (Grades 10-12)

1/2 credit

non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

This semester long course is designed to introduce students to techniques required to communicate in a 21<sup>st</sup> century environment. The overall goal of the course is to better prepare students to be effective and efficient communicators in a digital age. Traditional forms of communication including oral speech and the written word have evolved to digital platforms making them both more efficient and complex. To harness the power inherent in digital communication and ensure students become master communicators in a digital world, they will be exposed to various forms of communication including online and video-based media platforms. These stated goals of the course will be accomplished through the employment of project and performance-based units that seek to allow students to not only become more proficient communicators but also to challenge their abilities to think dynamically and creatively. The course is primarily group-based, and student-centered. Students will move through each unit with a team of other young people seeking to create high-level digital projects in a social and collaborative environment.

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11104 **DIGITAL FILM PRODUCTION II** (Grades 10-12)

1/2 credit

non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

This semester long course is designed to advance the skills and competences that were established in the digital communications course. While the focus of this course is still placed primarily on becoming an effective communicator in a digital world, students will seek to broaden their knowledge of communication techniques as well as their proficiency in communicating using various technological platforms. As students will enter the course with a basic proficiency in communicating using digital media, the emphasis of the course will then shift to using digital media to become more powerful, creative, and dynamic thinkers. The ability to think creatively and solve real-world problems with solutions that may not exist is rarely touched upon in the traditional educational setting. By using a student-centered, project-based approach Advanced Digital Communications will seek to improve the ability of students to be creative and dynamic problem solvers. This broadening ability will be displayed through the use of digital communication techniques as the path to creatively solving future problems will be paved by various technological platforms.

**Prerequisite: Digital Film Production I**

# SOCIAL STUDIES SEQUENCE CHART

## 2025-2026

|                 | <u>Academic</u>  | <u>Accelerated</u>                                |
|-----------------|--|---|
| <b>Grade 9</b>  | Civics and Government Academic   | Civics and Government Accelerated                 |
| <b>Grade 10</b> | 19 <sup>th</sup> Century U.S. History – Academic                           | 19 <sup>th</sup> Century U.S. History Accelerated |
| <b>Grade 11</b> | 20 <sup>th</sup> Century World History – Academic<br>Cultural Anthropology | AP United States History                          |
| <b>Grade 12</b> | World Governments and Economics<br>Cultural Anthropology                   | AP European History                               |

## SOCIAL STUDIES COURSES

### Social Studies- Grade 9

04107 CIVICS AND GOVERNMENT ACADEMIC

1 credit

A=4

This course will cover the key ideas of civics in relation to American government. This class is being designed to complete the ideals of American government students were introduced to in eighth grade history. They will continue moving forward with the evolution of American government to its present status.

*\*NCAA approved course*

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04108 CIVICS AND GOVERNMENT ACCELERATED

1 credit

A=5

This course will cover the key ideas of civics in relation to American government. This class is being designed to complete the ideals of American government students were introduced to in eighth grade history. They will continue moving forward with the evolution of American government to its present status.

*\*NCAA approved course*

### Social Studies- Grade 10

04203 19<sup>th</sup> CENTURY UNITED STATES HISTORY - ACADEMIC

1 credit

A=4

This is a history survey course of the United States History. This course begins after the creation of the U.S. Constitution and concludes with the beginning of World War 1. Students will be required to examine current issues and participate in various projects relative to the time period covered. Students should be reading on the 9<sup>th</sup> grade level.

*\*NCAA approved course*

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04205 19<sup>th</sup> CENTURY UNITED STATES HISTORY - ACCELERATED

1 credit

A=5

This course begins after the Constitution and concludes with the beginning of World War 1. Students will be required to examine current issues and participate in various projects relative to the time period covered. Students will also be required to read supplementary materials and demonstrate a critical understanding of the materials through oral presentations and written reports. Students should be reading and writing above the 9<sup>th</sup> grade level and prepared to enter a rigorous accelerated, college prep environment.

*\*NCAA approved course*

## Social Studies- Grade 11

### 04308 20<sup>th</sup> CENTURY WORLD HISTORY -ACADEMIC

1 credit

A=4

20<sup>th</sup> Century World History begins with World War 1 and continues to the present. Students will be required to examine current issues and participate in various projects using problem-solving strategies relative to social, political, economic, and cultural issues of the time period. The students will use critical-thinking skills in reading and writing to complete research projects, essays, classroom presentations, discussions, and independent reading assignments. **Students will also be responsible for summer reading.**

*\*NCAA approved course*

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### 04303 AP UNITED STATES HISTORY

1 credit

A=6

Advanced Placement United States History is a full year course taught on a college level of ability. A college text is utilized along with a novel to read in the summer and a minimum of three during the school year. Weekly reading quizzes and monthly unit exams evaluate academic progress.

The College Board sponsored national examination is mandated for each enrolled student. There is a fee to take this annual AP exam that can lead to the earning of college credit(s). \* Students will be required to take the AP exam.

There is a great deal of academic rigor associated with AP United States History. For the student who desires to gain and interpret United States History on a high-level ability, the course is a valuable challenge.

**Prerequisite: An “A” or “B” in Accelerated English 10.**

*\*NCAA approved course*

In this course the student will have the opportunity to:

1. master a broad knowledge of United States history
  2. demonstrate an understanding of great issues in chronological United States history
  3. use historical data to support an argument or position
  4. differentiate between various historiographical schools of inquiry
  5. interpret and apply data from original documents, graphs, cartoons, letters, etc.
  6. understand beliefs of democracy and the continuation of the democratic process
  7. develop a self-reliant ability to study independently to a greater degree than the conventional secondary United States history course
  8. work effectively with others to produce products and solve problems
  9. learn to take orderly notes from basic and supplemental texts and classroom presentations/lectures
  10. prepare for and successfully pass the Advanced Placement U.S. History exam
- 

### 04400 CULTURAL ANTHROPOLOGY (Grades 11-12)

1 credit

A=5

The Cultural Anthropology class is a year-long class that seeks to provide a greater understanding of humankind from a holistic perspective. The aim of Cultural Anthropology is to use a broad approach to gain an understanding of our past, present, future and address the problems humans face in biological, social, and cultural life. Cultural Anthropology utilizes theories and methods from the natural and social sciences, as well as the humanities, to examine humankind and human diversity. This course helps prepare students to actively apply their knowledge and skills to the challenges of living in an increasingly interconnected, diverse global society by exposing them to a systematic, scientific, and humanistic understanding of people and their cultures, including their own.

*\*NCAA approved course*

## Social Studies- Grade 12

### 04401 WORLD GOVERNMENTS AND ECONOMICS

1 credit

A=5

This course is designed to provide a challenging in-depth study into the workings of past and current political and economic systems. The demands on the course will be more rigorous than the conventional secondary political science and economics course.

The course will focus on the principles of government such as political structures and systems and inner workings of world governments.

The economics section of the course will center around traditional economic theory. A strong background in mathematics and reading is necessary for successful completion of course work. It will focus on the study of economic systems such as traditional command, market, and mixed economics. The course will include in-depth research of the stock market, investment, and both microeconomics and macroeconomics theory. **Prerequisite: Teacher recommendation and an A or B in 20<sup>th</sup> Century World History Academic or a “C” w/ teacher recommendation and a passing grade in 04303 AP United States History.**

*\*NCAA approved course*

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### 04304 AP EUROPEAN HISTORY

1 credit

A=6

European History 12-1 is a senior college-level course for which Advanced Placement American History is a prerequisite. The course begins with the Renaissance and provides for an in-depth study of the major developments in Europe to the present day. Analytical skills and writing skills aid the student in preparing for the demands of college work. In May the national Advanced Placement European History test is given, and the student is required to take it. Those who qualify may earn credits from a college which recognizes Advanced Placement Testing. **Prerequisite: An A or B in AP US History strongly recommended and teacher recommendation.**

*\*NCAA approved course*

## MATHEMATICS SEQUENCE CHART 2025 - 2026

|          | <u>Practical</u>    | <u>Academic</u>  | <u>Academic II</u> | <u>Accelerated</u>  |
|----------|---------------------|--|--------------------|---|
| Grade 9  | Practical Algebra A | Academic Algebra I   | Academic Algebra I | Accelerated Algebra II  |
| Grade 10 | Practical Algebra B | Academic Algebra II  | Selected Topics    | Accelerated Geometry  |
| Grade 11 | Practical Geometry  | Academic Geometry  | Practical Geometry | Elementary Functions  |
| Grade 12 | Consumer Math       | Trig or Pre-Calculus<br>*Double up Acad. Stats<br>w/ Pre Calc or Calc Only | Consumer Math      | AP Calculus AB or Acad. Calculus<br>*Double up AP Stats w/ EI Func or Calc only |

## MATHEMATICS COURSES

02401 **CONSUMER MATH** (Grade 12)

1 credit

A=4

This is a mathematics course which focuses on typical, everyday consumer problems where basic mathematical skills must be applied. The course includes essential family life topics such as transportation, food, clothing, and shelter. Personal finance topics such as income, banking, taxes, credit, budgets, insurance are among the other topics covered in the course.

**Prerequisite: Must be a senior to take this course.**

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02105 **PRACTICAL GEOMETRY** (Grades 10-12)

1 credit

A=4

This course studies plane and solid geometry using modified proofs, while emphasizing the use, understanding, and applications of geometric concepts. This course is intended to provide a more hands-on approach to geometry. This course will provide students with the skills necessary for future explorations in both college and various careers.

**Prerequisite: Completion of course Practical Algebra B.**

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02204 **GEOMETRY--ACADEMIC** (Grades 10-12)

1 credit

A=5

This is the usual plane geometry course for the high school student who has completed Algebra I. Approximately one-fourth of the course is devoted to exercises with proofs. A review of algebra topics is provided throughout the course. Topics in geometry that use proof include the study of basic undefined terms, definitions, postulates, and theorems to explore the properties of segments, angles, parallel and perpendicular lines, polygons, and circles. Other topics presented include areas of plane figures, volumes of solids, constructions, some basic right triangle trigonometry, The Pythagorean Theorem, locus of points, and coordinate geometry, transformations (reflection, rotation, size), three dimensional surfaces, perspective drawing.

**Prerequisite: Algebra II with 70% or higher.**

*\*NCAA approved course*

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02302 **GEOMETRY--ACCELERATED** (Grades 10-12)

1 credit

A=6

This course provides an in-depth exploration of Euclidean Geometry. It is proof-oriented, includes the study of both plane and solid geometry, and introduces transformation Geometry. Algebra II skills are maintained throughout the course, but a strong background in Algebra II and an above average ability to reason are prerequisites for enrollment.

**Prerequisite: Accelerated Algebra II with a "B" or higher.**

*\*NCAA approved course (Cannot be taken in conjunction with Elementary Functions)*

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02106 **SELECTED TOPICS** (Grades 10-11)

1 credit

A=4

This course is designed for those students who plan to further their education beyond high school and will prepare them for college and/or career explorations. Selected Topics will provide mastery of operational skills with polynomials and rational expressions, graphing and solving of linear equations, and determining probability as studied in Algebra I. This course will also review hands-on and relevant Geometry concepts needed to solve real-world applications problems. Selected Topics will also be an introduction to Algebra II with solving quadratic equations using factoring, the quadratic formula, and completing the square. If time allows, there may also be an introduction of simple trigonometric functions. **Prerequisite: Completion of both Practical Algebra A and B (Math 02102 & 02103) in conjunction with Practical Geometry (Math 02105) or Academic Geometry (Math 02204).**

*\*NCAA approved course*

02102 PRACTICAL ALGEBRA ~ A (Grade 9)

1 credit A=4

This course is designed to give each student Algebra I concepts at a modified pace. Topics to be covered include variables, rational numbers, solving equations, order of operations, linear equations and functions, graphing, slope, and rate of change. Students who successfully complete this course will move on to take Practical Algebra B. **Prerequisite: Grade 8 Pre-Algebra.**

*\*NCAA approved course for 1/2 credit*

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02103 PRACTICAL ALGEBRA ~ B (Grades 10-11)

1 credit A=4

This is the second course in the Practical Algebra sequence. Topics to be covered include solving and graphing inequalities, systems of equations and inequalities, data analysis concepts, as well as polynomials. Upon completion of the Practical A and B courses, students will have completed a full year of Algebra I. Students will take the Algebra I Keystone Exam at the conclusion of this course. This course provides students with the necessary skills required for college and career explorations. **Prerequisite: Practical Algebra A.**

*\*NCAA approved course for 1/2 credit*

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02207 ALGEBRA I-- ACADEMIC (Grades 9-12)

1 credit A=5

This is the first course in Algebra for students in the college preparatory sequence. The students will review and master the concepts of rational numbers and perform the four basic operations.

Students will master algebraic manipulation to solve, equations, inequalities, and expressions. Mathematical problem-solving strategies will be recognized, formulated, and applied by the students, and they will formulate mathematical definitions and express generalizations discovered through investigation. The student will be exposed to experiences that reinforce and extend logical reasoning skills. **Prerequisite: Completion of Pre-Algebra with a "C" or better. Students may retake in 9th grade after 8th grade Algebra I or after Practical Algebra A with teacher recommendation.**

*\*NCAA approved course*

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02301 ALGEBRA II-- ACCELERATED (Grade 9)

1 credit A=6

This is an accelerated second course in algebra, which is offered at a higher level than Algebra II. It emphasizes applications and connections with the real world. Problems are solved using more than one strategy. Critical thinking skills are required in solving challenging problems; mere memorization and substitution into formulas do not suffice as problem-solving techniques. Students must communicate mathematically. Concepts studied in this course include transformations of linear and quadratic functions, graphing quadratic functions, understanding properties of quadratic functions, solving quadratic equations, simplifying radical expressions, using complex numbers, and operations with polynomial and rational expressions.

**Prerequisite: Algebra I in 8th with a "B" or higher.**

*\*NCAA approved course*

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02305 ALGEBRA II-- ACADEMIC (Grades 9-12)

1 credit A=5

The Algebra II curriculum includes the refinement and extension of mathematical relationships begun in Algebra I, while developing algebraic skills necessary for higher mathematics. Equation solving is emphasized with application to the solution of word problems. Concepts studied in this course include graphing quadratic functions, understanding properties of quadratic functions, solving quadratic equations, simplifying radical expressions, using complex numbers, and operations with polynomial and rational expressions. **Prerequisite: "B" or higher in Algebra I.**

*\*NCAA approved course*

02208 INTRODUCTION TO TRIGONOMETRY WITH A REVIEW OF ALGEBRA II

1 credit

A=5

This course is designed for students who have already passed an Algebra II course, but who need a review of skills not yet mastered from Algebra II. It is also an introduction to trigonometry designed for students going to college, but not pursuing a mathematics program, and for students developing trade skills that make direct use of trigonometry.

Topics from Algebra II that will be reviewed include exponents and radicals, algebraic fractions and fractional equations, simultaneous linear equations, inequalities, quadratic equations, matrices, and graphing in the Cartesian Coordinate System.

Topics from Trigonometry covered include trigonometric functions, graphs of trigonometric functions, identities, the trigonometry of any triangle, inverse trigonometric functions, circular functions and their application, and complex numbers in polar form. Also, application to trigonometry will be made to such areas as navigation, angular velocity, force, surveying, and construction.

**Prerequisite:** Math 02305 (Algebra II) with a C or higher.

*\*NCAA approved course*

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02206 PRE-CALCULUS-- ACADEMIC

1 credit

A=5

This is the usual Pre-Calculus course for high school students planning to attend college, especially for those students who plan to pursue careers requiring some higher mathematics. It is not as rigorous as Math 02303 (Elem. Functions). The course is intended to acquaint the student with increased use of technical language and symbols in the presentation of definitions, postulates, theorems, and mathematical concepts.

The advanced algebra topics emphasize the definition and concept of a function, the analysis of many types of equations, and curve-sketching techniques for the straight lines and conic sections. Other topics include complex numbers and combinatorics and probability

Topics covered in trigonometry include the special angles, identities, radian measure, special formulas, graphs of functions and their inverses, solutions to equations and applications using the Law of Sines, Law of Cosines, and areas.

**Prerequisite:** Math 02204 (Academic Geometry) or Math 02302 (Accelerated Geometry) and a course grade of "High C" (75% or higher) or above in Math 02305 (Algebra II) or Math 02301 (Accelerated Algebra II).

*\*NCAA approved course*

**Please Note: A TI-84 Plus graphing calculator is required.**

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02210 ACADEMIC STATISTICS

1 credit

A=5

This course introduces the concepts of statistics. It will extensively use the graphing calculator with a statistics package for ease computation. The topics will include describing data, analyzing data, quantitative reasoning, and mathematical modeling. Other mathematical topics may be included as time and circumstances warrant. The course will include activities and some non-traditional assessments. This course is in the normal sequence for students who have taken or are presently taking Math 02303 (Elementary Functions) or Math 02206 (Pre-Calculus Academic). It is available as an elective, for all students who meet the prerequisite.

**Prerequisite:** Math 02206 (Pre - Calculus Academic), Math 02303 (Elem. Functions). May be taken at the same time as Math 02206 and Math 02303.

*\*NCAA approved course*

\*\* Must have previously taken Pre-Calculus or schedule to take Pre- Calculus at the same time as Statistics

**Please Note: A TI-84 Plus graphing calculator is required.**

**02214 AP STATISTICS**

1 credit

A=6

This course is a college level course in statistics which covers the AP Syllabus for AP Statistics. The course examines topics such as data collection methods, experimentation, graphical and numerical descriptive statistics, analyzing bivariate data, probability, probability and sampling distributions, confidence intervals, hypothesis testing, comparing two treatments, analyzing categorical data, and inferential methods. The course uses graphing calculators and computers to enhance the development of statistical understanding through exploring data, analyzing data, and assessing models. Students may earn college credit for Math 02214 (AP Statistics) by taking the AP exam.

**Prerequisite: Math 02303 (Elem. Functions) with a grade of 80% or higher. May be taken at the same time as Math 02303.**

*\*NCAA approved course*

**\*\*Students who enroll in AP Statistics are expected to take the AP Exam.**

**Please Note: A TI-84 Plus graphing calculator is required.**

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**02303 ELEMENTARY FUNCTIONS**

1 credit

A=6

This is a highly theoretical pre-calculus course which also fulfills the trigonometry requirement of students in the AP sequence. The course includes a rapid review of logic and methods of proof, the real and complex number system, and algebra (operations with polynomials, exponents and radicals, solutions to equations and systems of equations, inequalities, and graphing). The emphasis of the course is on the concepts of relation and function, domain and range, inverses, and curve-sketching as needed for the calculus. Algebraic functions (polynomials, rational, explicit algebraic) and their roots are given extensive treatment. Transcendental functions (exponential and logarithmic, trigonometric and inverse trigonometric) are carefully defined and their properties, graphs, and identities are thoroughly examined. The trigonometric functions are presented both as functions of angles and functions of real numbers. Topics from analytic geometry are included as time permits.

**Prerequisite: Completion in Math 02301 (Acc. Alg. II) with a “B” or higher and 02302 (Acc. Geometry) with a grade of “B” or higher.**

*\*NCAA approved course*

**Please Note: A TI-84 Plus graphing calculator is required.**

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**02209 ACADEMIC CALCULUS**

1 credit

A=5

This course will present concepts of Calculus and its applications in a non-rigorous manner. The students will use the graphing calculator to practice the course concepts and applications. The topics to be covered include functions and their graphs, limits, continuity, derivatives and their applications, and integrals. This course is not intended to prepare students for the AP Exam or to provide college credit. **Prerequisite: Math 02206 (Pre-Calculus Academic) or Math 02303 (Elem. Functions) with a grade of 80% or higher.**

*\*NCAA approved course*

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**02304 AP CALCULUS AB**

1 credit

A=6

This course is a college level course in calculus which covers the AP Syllabus for AB Calculus. The course reviews topics from elementary functions and analytic geometry, e.g.: distance formula, conic sections, polar coordinates, para-metric equations, trigonometry. The course devotes itself primarily to the concepts of limits and continuity, the derivative, and the definite and the indefinite integrals, carefully defining each and examining properties and methods of differentiation and integration with applications. Students may earn college credit for Math 02304 (AP Calculus-AB) by taking the AP test or enrolling in the College in High School Program. Students will be instructed on how to use a Texas Instrument -TI-84+ CE Graphing Calculator to perform various calculations related to calculus. Calculators are available for students to borrow for the duration of the course. Students seeking higher education in the field of mathematics are encouraged to purchase their own.

**Prerequisite: Math 02303 (Elem. Functions) with a grade of 90% or higher and permission of the course instructor.**

*\*NCAA approved course*

**\*\*Students who enroll in AP calculus are expected to take the AP Exam**

## COMPUTER SCIENCE AND CODING COURSES

12307 **AP COMPUTER SCIENCE PRINCIPLES** (Grades 9-12) 1 credit A=6

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

This course is designed to be an entry-level exposure to the world of computer science for the first half of the year. As the year progresses, students will learn about the Internet, digital information, programming, data privacy, and building apps. This is a basic programming class – it is designed to give students insight to all the computer science technology in the world around them. Students taking this class are expected to take this entry level AP exam. **Prerequisite: Algebra I or teacher recommendation.**

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12304 **INTRODUCTION TO JAVA** (Grades 10-12) 1 credit A=5

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

This course emphasizes a structured approach to programming in JAVA. Students will be focusing on Object-Oriented-Programming. Programming will include logical operations, conditional statements, iteration, arrays and more. This is a good course for students who plan to study computer science, engineering, or advanced mathematics in college.

**Prerequisite: Successful completion of AP Computer Science Principles or teacher recommendation.**

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12305 **AP COMPUTER SCIENCE A** (Grades 11-12) 1 credit A=6

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

Computer Science A emphasizes Object-Oriented- Programming methodology with an emphasis on multilevel problem solving, algorithm development and abstraction. This is meant to be the equivalent of a first-semester college course in computer science. Students taking this class are expected to take the AP exam. **Prerequisite: Introduction to JAVA.**

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12303 **INDEPENDENT STUDY COMPUTER** (Grade 12) 1 credit or 1/2 credit non-ranked

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

This is an independent study in Computer Science. Each student will propose a project of study that involves some aspect in computer coding that must be accepted by the supervising teacher. **Prerequisite: AP Computer Science A (JAVA) and have taken the AP Computer Science A Exam and teacher recommendation.**

## SCIENCE SEQUENCE CHART

### 2025 - 2026

| <u>Level</u> | <u>9th Grade</u> | <u>10th Grade</u>                | <u>11th Grade</u>  | <u>12th Grade</u>  |
|--------------|------------------|----------------------------------|--|--|
| Accelerated  | Honors Biology   | Honors Chemistry<br>AP Physics 1 | AP Biology<br>AP Physics I<br>AP Chemistry<br>AP Physics II                      | AP Biology<br>AP Chemistry<br>AP Physics I<br>AP Physics II  |
| Academic     | Academic Biology | Academic Chemistry               | Academic Chemistry<br>Academic Physics   | Academic Physics   |
|              |                  | Physical Science with Chemistry  | Physical Science with Chemistry  | Physical Science with Chemistry  |
| Electives    |                  |                                  | Introduction to Data Science<br>Human Anatomy and Physiology<br>Forensic Science | Introduction to Data Science<br>Human Anatomy and Physiology<br>Independent Study Calculus-Based Physics<br>Forensic Science |

## SCIENCE COURSES

03202 **ACADEMIC BIOLOGY** (Grade 9)

1 credit

A=5

Through lecture and laboratory procedures, the student is introduced to the basic principles and ideas of biology in accordance with Pennsylvania academic standards.

*\*NCAA approved course with lab*

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03306 **HONORS BIOLOGY** (Grade 9)

1 credit

A=6

This course is designed for the high achieving student. Entrance to this class is based on ability and teacher recommendation. Time is spent in class in more detailed lecture and laboratory procedures to bring out principles and ideas in modern biology in accordance with Pennsylvania academic standards. This course is adapted to the science-oriented student who will possibly enter a profession involving science. (Accelerated College Preparatory Course). Algebra II recommended for this course.

*\*NCAA approved course with lab*

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03215 **INTRODUCTION TO DATA SCIENCE** (Grades 11 – 12)

1 credit

A=5

*Completion of this course can be used as 1 science credit, 1 math credit, OR 1 computer science credit for graduation.*

This course is designed to introduce students to the growing field of data science. Data science is about data gathering, analysis, and decision making. Students learn how to collect, visualize, analyze, and find patterns in data, as well as make future predictions. Students will learn to find and communicate meaning in data and think critically about the role it plays in certain contexts. Computational thinking and basic programming structures using data analysis software are interwoven throughout the course as concepts are presented. No previous computer programming experience necessary.

**Prerequisite: Algebra I**

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03208 **HUMAN ANATOMY AND PHYSIOLOGY** (Grades 11- 12)

1 credit

A=5

The course is designed for students interested in entering any of the health care related fields. Anatomy and Physiology of both human and animal systems are studied. Dissections and lab projects are an integral part of the course. This is a rigorous and fast-paced course. This should be taken as a senior (12<sup>th</sup> grade) unless pre-approved by teacher. **Prerequisite: Academic Chemistry and Academic Biology with a grade of “C” or better. Practical Chemistry with a grade of 85% or better and teacher recommendation.**

*\*NCAA approved course with lab*

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03309 **AP BIOLOGY** (Grades 11- 12)

1.25 credit

A=6

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. This course should appeal to students interested in careers in biology and medicine. This course follows the recommended AP College Board curriculum. Summer work is assigned and required for enrollment in this course. **Prerequisite: (B) or better in Honors Chemistry and (B) or better in Honors Biology.**

*\*NCAA approved course with lab*

03205 ACADEMIC CHEMISTRY (Grades 10-12)

1 credit

A=5

This full year course in general chemistry is open to 10th, 11th, and 12th grade students. Topics include nomenclature, reactions and stoichiometry, atomic structure, periodic law, ionic and covalent bonding, kinetic molecular theory, gas laws, and acids and bases. In the laboratory sessions chemical experiments are conducted by the students. All the topics have emphasis in math and problem-solving situations as related to lab work and theory concepts. **Prerequisite: (C) average in Algebra II or concurrently enrolled in Algebra II. It is necessary to have a TI-30 calculator.**

*\*NCAA approved course with lab*

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03307 HONORS CHEMISTRY (Grades 10-12)

1 credit

A=6

This course is designed to provide an introduction to the basic principles of inorganic chemistry at an in-depth, accelerated pace. In addition to the material taught in academic Chemistry, topics such as gas laws, chemical equilibria and oxidation reduction are included. Theoretical experiments of various nature are conducted by the students in the laboratory, and students are required to present the laboratory findings using scientific writing. A strong mathematical foundation is required. **Prerequisite: (B) average in Algebra II. It is necessary to have a TI-30 calculator for this course.**

*\*NCAA approved course with lab*

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03310 AP CHEMISTRY (Grades 11-12)

1.25 credit

A=6

AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four-big ideas: Scale proportion and quantity; structure and properties of substances; transformations; and energy. **Prerequisite: (A) average in Academic or Honors Chemistry (formerly Accelerated Chemistry). It is highly recommended to have a TI-83 calculator for this course.**

*\*NCAA approved course with lab*

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03206 ACADEMIC PHYSICS (Grades 10-12)

1 credit

A=5

Physics is the study of the interactions between matter, and between matter and forces. This involves sizes on the subatomic level up to large celestial bodies making up the universe. Students investigate these interactions through hands-on experiences and mathematical models representing these forces. This course examines topics such as scientific measurement, motion, forces, energy, momentum, sound, static electricity, and electric circuits. **Prerequisite: Algebra I Academics in which a final grade of (B) or better has been obtained.**

*\*NCAA approved course with lab*

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03218 FORENSIC SCIENCE (Grades 11-12)

1 credit

A=4

Forensic Science is a fun, hands-on course that highlights forensics studies with a background in biology, physics, and chemistry. Students will use critical thinking and reasoning skills to investigate and analyze forensic evidence in this applied lab class. Some topics covered include fingerprint and DNA analysis, impressions, profiling, blood spatter, and forgery. Students must have completed either Physical Science with Chemistry or Academic Chemistry as a prerequisite for this course.

**03308 AP PHYSICS I** (Grades 10-12)

1 credit

A=6

This is an AP laboratory course that meets every day. It is designed to meet the requirements for students to be able to sit for the AP Physics 1 (algebra-based) exam. The course will explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; momentum; and fluid statics and dynamics. This is a mathematically rigorous course that will explore the subjects presented in great detail and at an accelerated pace. The focus will be on inquiry-based analyses of the properties of objects and systems, and their interactions. **Prerequisite: students should be currently enrolled in or have completed Elementary Functions or Pre-Calculus Academic; or completed Algebra II Academic with a final grade of (B) or better, and with permission from the course instructor. It is highly recommended to have TI-30 calculator or better for this course.**

*\*NCAA approved course with lab*

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**03311 AP PHYSICS II** (Grade 12)

1 credit

A=6

This is an AP laboratory course that meets every day. It is designed to meet the requirements for students to be able to sit for the AP Physics 2 (algebra-based) exam. The course will explore principles of waves and sound, thermodynamics, electricity, magnetism, optics, and topics in modern physics. This is a mathematically rigorous course that will explore the subjects presented in great detail and at an accelerated pace. The focus will be on inquiry-based analyses of the properties of objects and systems, and their interactions. **Prerequisite: AP Physics 1; students should be currently enrolled in or have completed Elementary Functions, Pre-Calculus Academic, AP Calculus, or Academic Calculus. It is highly recommended to have TI-30 calculator or better for this course.**

*\*NCAA approved course with lab*

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**03115 PHYSICAL SCIENCE WITH CHEMISTRY** (Grades 10-12)

1 credit

A=4

Physical Science focuses on key concepts of Physics and Chemistry, with limited application of basic mathematics. The goal of this course is to provide an appreciation for the application of these key concepts in real-world situations. It is also the goal of this course to foster skills such as initiative, critical thinking, problem solving, collaboration and communication. Physics topics include vibration, light and sound, motion, machines, forces, and electricity. Chemistry topics include matter and its changes, elements, atoms, and compounds, the periodic table, along with bonding and reactions. **Prerequisite: none.**

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**03313 INDEPENDENT STUDY CALCULUS BASED PHYSICS** (Grades 11-12)

1 credit

A=6

This is an independent study calculus-based physics course designed for students who have taken or are concurrently taking a calculus course, to prepare students for a college-based physics curriculum and/or to prepare students who wish to sit for the AP Physics C Mechanics and/or Electromagnetics exams. Students can choose to concentrate on just mechanics, just electromagnetics, or both. Under mechanics, the topics covered will be linear and rotational kinematics, Newton's laws of motion and gravity, work, energy, and power. Under electromagnetism, the topics covered will be electrostatics, conductors, capacitors, inductors, electric circuits, magnetic fields, and electromagnetism. **Prerequisite: Completed or concurrently enrolled in AP Calculus AB; and completed or concurrently enrolled in AP Physics II.**

# WORLD LANGUAGE COURSES

*\*All languages are NCAA approved courses*

06101 **FRENCH I** 1 credit A=5

This course serves as an introduction to the language. Basic vocabulary and grammar structures form the foundation for further study. Students will be introduced to French culture and way of life.

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06102 **FRENCH II** 1 credit A=5

French II is designed to build upon the knowledge and skills established in French I with a continuation of vocabulary and grammar study. Students will be able to communicate in three basic tenses. Students will have the opportunity to improve the areas of speaking, listening, reading, and writing.

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06103 **FRENCH III** 1 credit A=5

French III students will begin to fine tune their knowledge of grammar with more sophisticated language structures. The material includes a review and augmentation of vocabulary. Longer passages are read in this class, including a short novel in French. Students also continue the study of French culture.

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06105 **FRENCH IV** 1 credit A=6

The students will master many grammar concepts and tenses and increase vocabulary. Reading, writing, listening, and speaking skills are emphasized. More free composition takes place. A novel is read as part of this class.

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06106 **FRENCH V** 1 credit A=6

Advanced grammar concepts are studied at a college level. Students become acquainted with famous French authors and acquire vocabulary through the reading of a variety of literature. All students will prepare and present a project on some cultural aspect in the target language. Use of the language in spoken and written communication is emphasized. Students study many aspects of culture in depth. Preparation for college level language courses is a goal. Students may take the AP exam, but it is not required.

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06201 **SPANISH I** 1 credit A=5

This course is designed to introduce the students to a second language and to develop interest in customs and life in Spanish speaking countries. The emphasis is in vocabulary, grammar, writing, reading, and speaking.

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06202 **SPANISH II** 1 credit A=5

This course is designed to build upon the knowledge and skills established in Spanish I with a continuation of vocabulary and grammar study. Students will be able to communicate in three basic tenses. Students will have the opportunity to improve the areas of speaking, listening, reading, and writing.

06203 SPANISH III

1 credit

A=5

This course is designed to help the student understand conversations and written Spanish. Conversation is emphasized, with a build-up in vocabulary and grammatical tenses.

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06205 SPANISH IV

1 credit

A=6

The two primary goals of Spanish IV are acquisition of cultural knowledge and real-life application of the Spanish language. Students will develop their knowledge and understanding of Spanish through a variety of activities using authentic Spanish resources. An important part of the class will be the building of vocabulary. The students will also master a variety of tenses and grammatical structures, which will enrich their ability to communicate in Spanish. In addition, students will become familiar with some of the major literary works of the Spanish speaking world.

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06206 SPANISH V

1 credit

A=6

In Spanish V, students will refine their Spanish skills and deepen their cultural understanding. This class will focus on the fine tuning of grammar and the acquisition of more advanced vocabulary, as well as enriching each student's reading, writing, speaking, and listening proficiency. The classroom activities will focus more on real-life situational activities and less on textbook exercises. This class will help the students to prepare for college placement tests, as well as for the AP Spanish Language Exam. Students will have the option of taking the AP Spanish Language Exam in May, but it is not required for the class.

**COLLEGES THAT REQUIRE A WORLD LANGUAGE FOR ADMISSION NORMALLY PREFER THE APPLICANT TO HAVE HAD AT LEAST TWO YEARS OF THE SAME WORLD LANGUAGE. COLLEGE ENTRANCE REQUIREMENTS FOR WORLD LANGUAGE SHOULD BE CHECKED SPECIFICALLY WITH THE COLLEGE UNDER CONSIDERATION**

## COMPUTER/BUSINESS SEQUENCE CHART 2025-2026

| GRADE 9                            | GRADE 10   | GRADE 11   | GRADE 12   |
|------------------------------------|--|--|--|
| <u>Full Year Courses</u>           | <u>Full Year Courses</u>                                   | <u>Full Year Courses</u>                                   | <u>Full Year Courses</u>                                   |
|                                    | Accounting I (10-12)                                       | Accounting I (10-12)                                       | Accounting I (10-12)                                       |
|                                    |  | Accounting II (11-12)                                      | Accounting II (11-12)                                      |
| <u>Semester Courses</u>            | <u>Semester Courses</u>                                    | <u>Semester Courses</u>                                    | <u>Semester Courses</u>                                    |
| Computer Applications (9-12)       | Computer Applications (9-12)                               | Computer Applications (9-12)                               | Computer Applications (9-12)                               |
| Personal Financial Literacy (9-12) | Personal Financial Literacy (9-12)                         | Personal Financial Literacy (9-12)                         | Personal Financial Literacy (9-12)                         |
|                                    | Business & Personal Law (11-12)                            | Business & Personal Law (11-12)                            | Business & Personal Law (11-12)                            |
| Intro to Marketing (9-12)          | Intro to Marketing (9-12)                                  | Intro to Marketing (9-12)                                  | Intro to Marketing (9-12)                                  |
| HTML Code & Web Design (9-12)      | HTML Code & Web Design (9-12)                              | HTML Code & Web Design (9-12)                              | HTML Code & Web Design (9-12)                              |
|                                    | Reality Check: (11-12)<br>21 <sup>st</sup> Century Success | Reality Check: (11-12)<br>21 <sup>st</sup> Century Success | Reality Check: (11-12)<br>21 <sup>st</sup> Century Success |

## COMPUTER/BUSINESS COURSES

12101 **COMPUTER APPLICATIONS** (Grades 9-12) 1/2 credit non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

This preparatory course, highly recommended for all 9th grade students, will provide hands-on instruction in computer concepts with a focus on career interests and abilities. Software applications include word processing, presentation software, desktop publishing, and spreadsheets. Proper use and ethical issues of the Internet will be addressed. In addition, English language arts and mathematics are reinforced.

12204 **ACCOUNTING I** (Grades 10-12) 1 credit non-ranked

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

Accounting is an essential preparatory course for students who are interested in any business career. Students will learn how to analyze and record business transactions. Financial statements will be prepared with an emphasis on how the numbers affect business decisions. Students will also study the importance of ethics in accounting through the use of real-world case studies. This course is extremely beneficial for students interested in studying business after high school.

12205 **ACCOUNTING II** (Grades 11-12) 1 credit non-ranked

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

Accounting II is a necessary course for any student planning to pursue an accounting career. This is also an excellent course for those students who contemplate focusing on any other business major in post-secondary education. Principles learned in Accounting I will be expanded, and Automated Accounting will be introduced. **Prerequisites: Accounting I with a minimum 80% average and teacher recommendation.**

12125 **INTRODUCTION TO MARKETING** (Grades 9-12) 1/2 credit non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

Introduction to Marketing is designed to provide students with an overview of the field of Marketing. Students will be introduced to various areas of marketing research, the effects of competition, e-commerce, pricing, product development, distribution, promotion, and advertising. Students will also explore topics such as marketing technology and the Internet, global marketing, consumer behavior, ethics, and customer service.

12119 **PERSONAL FINANCIAL LITERACY** (Grades 9-12) 1/2 credit non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

Personal Financial Literacy is a one semester course that is highly recommended for all students and provides them with valuable skills needed to handle everyday personal business/financial decisions. It is a fast-paced elective that is challenging at times and requires a fair amount of reading and independent assignments. A variety of topics will be covered to include personal income; benefits; taxes/deductions; inflation; time value of money; consumer rights and responsibilities; budgeting; checking/savings accounts; credit management; debt repayment; bankruptcy; and investments.

12121 **HTML CODE & WEB DESIGN** (Grades 9-12) 1/2 credit non-ranked  
(formerly *Internet & Multimedia*)

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

HTML Code & Web Design is a preparatory course for students interested in Web page creation and effective, user-friendly, and interactive design. Students will evaluate and critique Websites and various online tools used to create them. Students will learn how to use a text editor to write HTML code and utilize various design techniques to create functional Web pages. In this project-based course, students will apply the design concepts they have learned to create multiple, individual Web pages.

**Prerequisites: Computer Applications with a minimum “C” average and teacher recommendation)**

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12117 **BUSINESS & PERSONAL LAW** (Grades 10-12) 1/2 credit non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

Business & Personal Law is a one semester course that is highly recommended for intended business majors and provides the students with a foundation for a college-level business law course. It is a fast-paced elective that is challenging and requires significant reading, note taking, and independent assignments. A variety of topics will be covered to include contract law; consumer law; negotiable instruments; credit protection; bankruptcy; employment law; sole proprietorships; partnerships, LLCs; corporations; corporate regulations, environmental laws; and cyberlaw.

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12102 **REALITY CHECK; 21<sup>st</sup> CENTURY SUCCESS SKILLS** (Grades 11-12) 1/2 credit non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

This one semester class for juniors and seniors should be taken in the junior year. In this course, we will address options for after graduation to include attending college; trade/technical training; entering the workforce directly. Throughout the course, students will take interest profiling surveys, spend time weighing possible career options, researching opportunities, discussing scholarship opportunities, financial aid, and a variety of soft skills needed in the work environment.

## MUSIC COURSES

05303 **CONCERT CHOIR** (Grades 9-12)

1 credit

non-ranked

Concert Choir is open to any student who enjoys singing. You do not need to audition for this group. Music studied and performed is from all time periods and encompasses many singing styles from musicals, to pop, spiritual and classical, to rock. **Students are responsible for two evening concerts including Winter and Spring. This is part of the grading criteria for the course.**

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05306 **CONCERT CHOIR** (Grades 9-12)

1/2 credit

non-ranked

Concert Choir is open to any student who enjoys singing. You do not need to audition for this group. Music studied and performed is from all time periods and encompasses many singing styles from musicals, to pop, spiritual and classical, to rock. **Students are responsible for two evening concerts including Winter and Spring. This is part of the grading criteria for the course.**

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05320 **TREBLE CHOIR** (Grades 9-12)

1 credit

non-ranked

Treble Choir consists of those voices which sing Soprano or Alto. This is an auditioned group. **Students must schedule an audition time with instructor before registering for the course.** Students are responsible for two evening concerts including Winter and Spring as well as various extra performances around the community throughout the year. **This is part of the grading criteria for the course. Course percentage grade is determined by student/teacher contract.**

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05329 **TREBLE CHOIR** (Grades 9-12)

1/2 credit

non-ranked

Treble Choir consists of those voices which sing Soprano or Alto. This is an auditioned group. **Students must schedule an audition time with instructor before registering for the course.** Students are responsible for two evening concerts including Winter and Spring as well as various extra performances around the community throughout the year. **This is part of the grading criteria for the course. Course percentage grade is determined by student/teacher contract.**

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05205 **ORCHESTRA** (Grades 9-12)

1 credit

non-ranked

Orchestra is open to all **STRING** players (violin, viola, cello, and bass) as well as selected musicians from Band (brass, woodwind, and percussion) at the discretion of the Music Department. Music studied and performed is from all periods. Students are responsible for two evening concerts including Winter and Spring. This is part of the grading criteria for the course. Students will also be taught in small group lessons with emphasis on positions, proper care and maintenance of the instruments and better intonation. **All STRING students (violin/viola, cello/string bass) are encouraged to register for this course. Course percentage grade is determined by student/teacher contract.**

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05208 **ORCHESTRA** (Grades 9-12)

1/2 credit

non-ranked

Orchestra is open to all **STRING** players (violin, viola, cello, and bass) as well as selected musicians from Band (brass, woodwind, and percussion) at the discretion of the Music Department. Music studied and performed is from all periods. Students are responsible for two evening concerts including Winter and Spring. This is part of the grading criteria for the course. Students will also be taught in small group lessons with emphasis on positions, proper care and maintenance of the instruments and better intonation. **All STRING students (violin/viola, cello/string bass) are encouraged to register for this course. Course percentage grade is determined by student/teacher contract.**

05220 **CONCERT BAND** (Grades 9-12) 1 credit non-ranked

Band members serve in many functions and capacities. The repertoire during the year is varied and includes marches, orchestral transcriptions, popular songs, Broadway selections and original works for Band. Students are responsible for two evening concerts, Winter, and Spring as part of the grading criteria for this course. Members of this group also perform in small ensembles for various school and community functions. Pep Band and Jazz Ensemble are selected from the Band's membership. Marching Band is chosen from this membership on a voluntary basis.

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05223 **CONCERT BAND** (Grades 9-12) 1/2 credit non-ranked

Band members serve in many functions and capacities. The repertoire during the year is varied and includes marches, orchestral transcriptions, popular songs, Broadway selections and original works for Band. Students are responsible for two evening concerts, Winter, and Spring as part of the grading criteria for this course. Members of this group also perform in small ensembles for various school and community functions. Pep Band and Jazz Ensemble are selected from the Band's membership. Marching Band is chosen from this membership on a voluntary basis.

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05203 **MUSIC THEORY** (Grades 9-12) 1 credit non-ranked

This is an excellent preparation course for those students' planning careers in music or for those who want to learn more about the theoretical techniques of music chord harmonies, part writing and composing. Ear training and sight-singing will be explored. **All students must be approved by the Music Instructor before registering for this course.** Piano students and those wishing to learn more about the technicalities of music are also encouraged to sign up for this course. **Music Theory will meet 5 days per week. Semester 1 and 2. This is a full year course. NO EXCEPTIONS.**

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05218 **MODERN BAND** (Grades 9-12) 1 credit non-ranked

This will be a multi-leveled class for students from beginning to intermediate level of playing. **All students must be approved by the Music Instructor before registering for this course.** The purpose is to build students achievement through a modern band ensemble. The course builds the skills necessary to perform on electric guitar, acoustic guitar, electric bass, keyboard, drums, vocals, and technology. With an emphasis on the music styles of the last 50 years. Many of these will be discussed, demonstrated, and performed by the students. The course will also foster peer to peer development in the band setting while encouraging each band to perform cohesively as a single unit. Students in Modern Band will also focus on basic composition, both as an individual and group, and improvisation. End of the term projects will culminate with both solo and group ensemble performances. These performances are part of the grading criteria. Students are encouraged to schedule the course for the entire year.

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05219 **MODERN BAND** (Grades 9-12) 1/2 credit non-ranked

This will be a multi-leveled class for students from beginning to intermediate level of playing. **All students must be approved by the Music Instructor before registering for this course.** The purpose is to build students achievement through a modern band ensemble. The course builds the skills necessary to perform on electric guitar, acoustic guitar, electric bass, keyboard, drums, vocals, and technology. With an emphasis on the music styles of the last 50 years. Many of these will be discussed, demonstrated, and performed by the students. The course will also foster peer to peer development in the band setting while encouraging each band to perform cohesively as a single unit. Students in Modern Band will also focus on basic Composition, both as an individual and group, and Improvisation. End of the term projects will culminate with both solo and group ensemble performances. These performances are part of the grading criteria. Students are encouraged to schedule the course for the entire year.



## ART COURSES

05105 **ART 1** (Grades 9-12)

1/2 credit

non-ranked

This is a beginning art course in basic drawing, painting, and general methods. Students will have the opportunity to acquire basic skills and techniques through guided practice and exploration in the areas of perspective, color theory, value drawing, mixed media, and elements/principles or art utilizing various art mediums.

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05107 **ART 2** (Grades 9-12)

1/2 credit

non-ranked

Art 2 is an extension of Art 1 that will provide the students with additional skills and techniques as well as a review of those previously learned. Students will gain these skills and techniques through guided practice and exploration in the areas of drawing, painting, human anatomy, mixed media, and self-proposed work utilizing various art mediums. **Prerequisite: Students must have successfully completed Art 1.**

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05119 **CERAMICS 1** (Grades 9-12)

1/2 credit

non-ranked

Ceramics 1 is a beginning course providing students with the necessary basic skills needed and the working knowledge of clay and ceramic vocabulary. Students will work through methods and processes including stamp forming, pinching, coil building, slab building, and sculptural formation.

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05121 **CERAMICS 2** (Grades 9-12)

1/2 credit

non-ranked

This course is an extension of Ceramics 1 in which the students will increase their knowledge of terminology and hand building skills along with acquiring new skills and techniques on the pottery wheel. Required projects will be formed through the methods and processes of hand building and wheel throwing. **Prerequisite: Students must have successfully completed Ceramics 1.**

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05123 **CERAMICS 3** (Grades 10-12)

1/2 credit

non-ranked

This is an extension of Ceramics 2. Students will refine their skills in wheel throwing and further their ability in hand building, while working toward developing their own artistic style. **Prerequisite: Students must have successfully completed Ceramics 1 and 2.**

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05132 **2-DIMENSIONAL & 3-DIMENSIONAL ART** (Grades 9-12)

1/2 credit

non-ranked

This course is designed for students who are interested in furthering their content knowledge of the Arts in 2-dimensional and 3-dimensional design. Students will be provided the opportunity to study the work of master artists and experiment with a variety of media and techniques to create 2-D, and 3-D artworks. Through this course, students will learn how to strengthen and utilize 2-dimensional skills and techniques to produce 3-dimensional works of art. **Prerequisite: Students must have successfully completed Art 1.**

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05125 **COMMERCIAL ART** (Grades 9-12)

1/2 credit

non-ranked

This course is designed to introduce students to several basic skills in the Commercial and Graphic Arts field. Students will explore the elements and principles of Graphic Design using various tools, techniques, and types of media. Knowledge gained from this course will give students a business and consumer awareness as well as an opportunity to develop their own creative potential towards a career in art. Students will experience lettering, cartooning, printmaking, graphic design, fashion design, and illustration.

05127 **JEWELRY & METALSMITHING** (Grades 11-12)

1/2 credit

non-ranked

This course is designed to introduce students to several basic skills in jewelry and metalsmithing field. Students will learn how to manipulate metal using a variety of techniques such as sawing, riveting, soldering, forming/wrapping, dapping, etc. Knowledge gained from this course will give students basic jewelry making skills, as well as business and consumer marketing ideas. Students will create wearable pieces of jewelry and / or small sculptures.

**Prerequisite: Students must have successfully completed Art 1 and one additional Art class.**

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05130 **INDEPENDENT STUDY: VISUAL ARTS or CERAMICS** (Grade 12)

1 credit

non-ranked

This course is developed specifically for students in their senior year of high school, wishing to hone their skills and abilities in the areas of ceramics and /or fine arts. Students will be working independently on self-proposed, and teacher guided projects that will allow them to advance in their own artistic style. **Prerequisite: Students must have successfully completed 2 full art credits (total of 4 art courses, per sequence chart) with an “A” average and teacher recommendation.**

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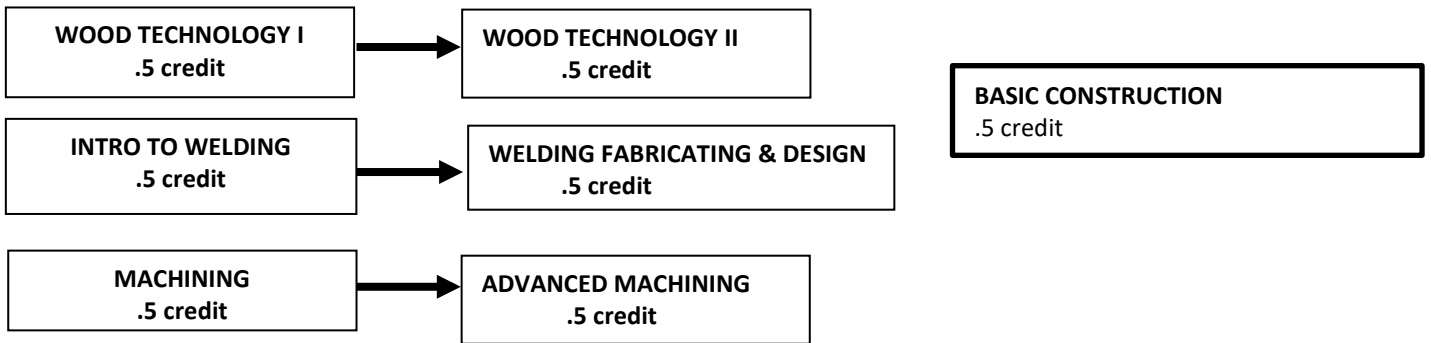
05134 **INDEPENDENT STUDY: VISUAL ARTS or CERAMICS** (Grade 12)

1/2 credit

non-ranked

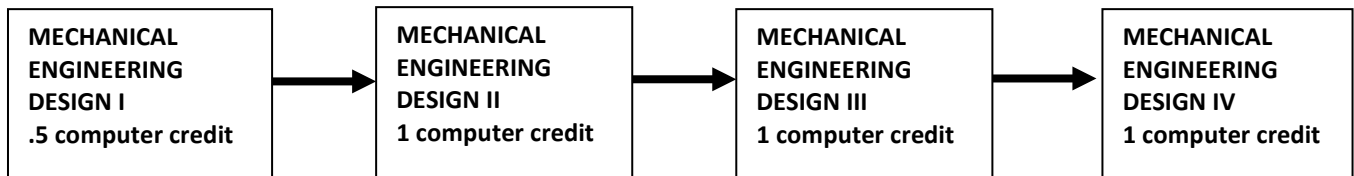
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# MATERIALS / MANUFACTURING



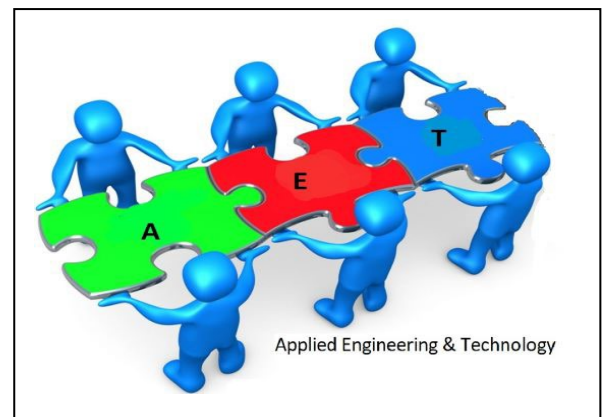
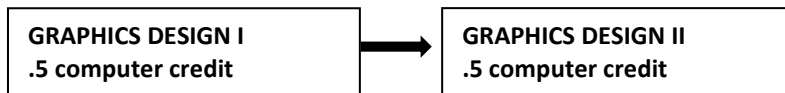
# MECHANICAL ENGINEERING & DESIGN

## BATTLE BOTS



# VISUAL COMMUNICATIONS

## Graphics Design



## TECHNOLOGY EDUCATION COURSES

### 13406 BASIC CONSTRUCTION (Grades 9-12)

1/2 credit

non-ranked

A Basic Construction class typically serves as an introductory course for students interested in the field of construction and civil engineering. The class aims to provide fundamental knowledge and understanding of various aspects of construction processes, materials, and techniques. While specific course content may vary depending on the educational institution. The course may include a combination of lectures, practical demonstrations, assignments, and possibly field trips to construction sites for real-world exposure. Students are typically expected to gain a foundational understanding of the construction industry and its essential principles, preparing them for more advanced studies or careers in construction-related fields.

**\*A lab fee of \$5.00 will help cover materials used for student projects.**

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### 13401 MATERIALS MANUFACTURING: WOODWORKING TECHNOLOGY I 1/2 credit

non-ranked

Woodworking I is an introductory high school course designed to provide students with a foundational understanding of woodworking techniques and craftsmanship. This hands-on class offers students the opportunity to explore the art and practicality of working with wood, from selecting materials to creating finished projects. Whether you're a beginner or have some prior experience, this course will teach you the essential skills and knowledge needed to work with wood safely and effectively.

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### 13404 MATERIALS MANUFACTURING: WOODWORKING TECHNOLOGY II 1/2 credit

non-ranked

Woodworking II is an advanced high school course that builds upon the foundational knowledge and skills acquired in Woodworking I. This course is designed for students who have completed Woodworking I. Woodworking II delves deeper into the world of woodworking, introducing students to more complex projects and advanced techniques to further hone their craftsmanship.

**Prerequisite: Woodworking Technology I**

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### 13305 MACHINING I (Grades 9-12)

1/2 credit

non-ranked

Machining I is an introductory course that provides students with a comprehensive understanding of basic machining operations and techniques. The course emphasizes hands-on training and theoretical knowledge necessary for entry-level positions in the manufacturing industry. Students will learn about various machining processes, tools, and materials commonly used in the field. They will also gain practical experience in operating machinery and interpreting engineering drawings.

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### 13308 ADVANCED MACHINING II (Grades 9-12)

1/2 credit

non-ranked

Machining II is an advanced-level course designed to provide students with an in-depth understanding of advanced machining techniques and processes. Building on the foundational knowledge gained in Machining I. This course delves deeper into the principles and practices of machining, with a focus on complex machining operations and precision manufacturing. Students will be introduced to advanced machining tools and equipment, as well as cutting-edge technologies in the field of manufacturing. **Prerequisite: Machining with a 75% or better.**

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### 13301 INTRODUCTION TO WELDING I (Grades 9-12)

1/2 credit

non-ranked

This introductory course provides students with a comprehensive understanding of the fundamental principles and practices of welding. Students will learn about various welding techniques, including gas metal arc welding (GMAW), shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), and flux-cored arc welding (FCAW). The course emphasizes hands-on experience, allowing students to develop essential skills in metal preparation, joint design, and welding processes. Safety protocols and industry standards are emphasized throughout the course to ensure students are equipped with the knowledge to work safely in a welding environment.

13304 **WELDING DESIGN & FABRICATION II** (Grades 9-12) 1/2 credit non-ranked

Welding II is an advanced course that builds upon the foundational knowledge and skills acquired in Welding I. This course is designed to further develop students' expertise in various welding techniques and processes, including gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), shielded metal arc welding (SMAW), and flux-cored arc welding (FCAW). Emphasis is placed on refining welding techniques, understanding advanced welding principles, and exploring complex joint designs and applications.  
**Prerequisite: Intro to Welding with a 75% or better.**

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13311 **MECHANICAL ENGINEERING DESIGN I** (Grades 9-12) 1/2 credit non-ranked

*Completion of this course meets ½ credit of the 2 computer science credits required for graduation.*

This course is a semester long course. This class is designed to introduce students to the world of CAD (computer aided drafting). Students will be utilizing the engineering design process (define the problem, plan the solutions, make a model, test the model, reflect and redesign) throughout the semester. Students will be using SolidWorks software and learn the basics of 3D modeling and design. Students will discuss what a mechanical engineer is and the different careers that a mechanical engineer might pursue. Students will learn how to 3D print, what reverse engineering is, practice reverse engineering, learn how to create assemblies in SolidWorks, learn how to save different file types (3D printing is a different file than laser engraving would be). Students will learn problem solving skills through projects/STEM challenges.

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13313 **MECHANICAL ENGINEERING DESIGN II** (Grades 10-12) 1 credit non-ranked

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

This is a year-long introductory course. The prerequisite is Mechanical Engineering 1. This class will provide students with an understanding of the robotics that are battled at the local RoboBOTS event. Students will be utilizing the engineering design process (define the problem, plan the solutions, make a model, test the model, reflect and redesign) throughout the year. Students will explore how robots are designed, prototype construction, electronics, programming, operation, and gain hands-on experience with using 3D printers and a CNC Mill. This course will foster critical thinking, problem-solving, and creativity. This class will also prepare students for futures in STEM (science, technology, engineering, and math) fields.

**Prerequisite: Mechanical Engineering I with an 80% or higher**

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13314 **MECHANICAL ENGINEERING DESIGN III: Advanced Robotics** (Grades 11-12) 1 credit non-ranked

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

This is a year-long course for high school students who have already completed ME1 and ME 2 courses. Students will be designing the robots that will compete in the annual RoboBOTS competition. Students will be advising and assisting in teaching the first-year students. Students will complete robot designs in SolidWorks, build a prototype of the robot, re-engineer, problem solve, and create the final robot utilizing 3D printers, CNC Mill, and various tools and equipment. Students will be utilizing the engineering design process (define the problem, plan the solutions, make a model, test the model, reflect and redesign) throughout the year. Students will need to learn how to obtain sponsors, create a bill of materials, learn budgeting, prepare documentation, prepare, and print CAD files, create team logos, design, and make team t-shirts.

**Prerequisite: Mechanical Engineering II with an 80% or higher**

13315 **MECHANICAL ENGINEERING DESIGN IV: Advanced Robotics** (Grade 12)

1 credit non-ranked

*Completion of this course meets 1 credit of the 2 computer science credits required for graduation.*

This is a yearlong course for high school students who have already completed ME1, ME 2, and ME 3 courses. Students taking this class are typically in their senior year and assist the ME 2 and ME 3 students with robot designs, build a prototype of the robot, re-engineer, problem solve, and create the final robot utilizing 3D printers, CNC Mill, and various tools and equipment. Students will be utilizing the engineering design process (define the problem, plan the solutions, make a model, test the model, reflect and redesign) throughout the year. Students will need to help the ME 2 and ME 3 students in the annual RoboBOTS competition obtain sponsors, create a bill of materials, budget, prepare documentation, prepare/print CAD files, create team logos, and make team t-shirts.

**Prerequisite: Mechanical Engineering III with an 80% or higher**

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13111 **VISUAL COMMUNICATIONS: GRAPHICS DESIGN I** (Grades 9-12)

1/2 credit non-ranked

*Completion of this course meets 1/2 credit of the 2 computer science credits required for graduation.*

This semester course deals with various aspects of graphic design and graphic design software. Students will have the opportunity to learn about graphic design techniques and use industry-standard software. This course encompasses both digital and physical projects, allowing students to explore a wide range of design mediums. This course will increase students brainstorming and problem-solving skills when students are troubleshooting assignments and projects. Students will be utilizing the engineering design process (define the problem, plan the solutions, make a model, test the model, reflect and redesign) throughout the semester. This course is an excellent choice for students who wish to learn more about graphic design, students who prefer hands-on courses, and for students who wish to pursue a career in graphic design, the arts, drafters, industrial designers, interior designers, landscape artist/designers, page layout work, website designer/developer, and set designer.

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13114 **VISUAL COMMUNICATIONS: GRAPHICS DESIGN II** (Grades 9-12)

1/2 credit non-ranked

*Completion of this course meets 1/2 credit of the 2 computer science credits required for graduation.*

This is a semester long course for high school students who have already completed Graphic Design 1. This semester course will dive deeper in graphic design and graphic design software. Students will be creating more detailed projects in Adobe Illustrator and Adobe Photoshop. This course encompasses both digital and physical projects, allowing students to explore a wide range of design mediums. This course will increase students brainstorming and problem-solving skills when students are troubleshooting assignments and projects. Students will be utilizing the engineering design process (define the problem, plan the solutions, make a model, test the model, reflect and redesign) throughout the semester. This course is an excellent choice for students who wish to learn more about graphic design, students who prefer hands-on courses, and for students who wish to pursue a career in graphic design, the arts, drafters, industrial designers, interior designers, landscape artists/designers, page layout work, website designer/developer, set designer.

## FAMILY AND CONSUMER SCIENCES COURSES

22204 **CHILD DEVELOPMENT** (Grades 9-12) 1/2 credit      non-ranked

Roles of the parent and deciding whether to become a parent are topics included in Child Development as well as prenatal care, childcare and development up to the end of infancy.

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22206 **PARENTING** (Grades 9-12) 1/2 credit      non-ranked

Parenting is for the student who is interested in children and child development either from the aspect of a parent or working with children as a career. This course covers the toddler years through adolescence and includes work with preschoolers. **Prerequisite: Child Development**

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22208 **FOODS I** (Grades 10-12) 1/2 credit      non-ranked

A semester course about everything you always wanted to know about food in your life. Students will learn about kitchen safety and organizational skills. Students will learn all aspects of grain, vegetable, fruit, dairy, and protein products.

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22211 **FOODS II** (Grades 10-12) 1/2 credit      non-ranked

A semester course continuing with everything you always wanted to know about food in your life. You will learn about nutrition basics, health and wellness, and global cultures. **Prerequisite: Foods I**

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22214 **TEXTILES & APPAREL I** (Grades 9-12) 1/2 credit      non-ranked

Clothing, society, and the fashion world from fashion history to today's fashion industry will be addressed in this course. Care and selection; maintain, repair, redesign and recycle will be explored. This class will include sewing projects, proper way to use a sewing machine.

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22217 **TEXTILES & APPAREL II** (Grades 9-12) 1/2 credit      non-ranked

This course will include fashion merchandising, clothing construction and home decorating projects. Some sewing supplies may need to be purchased. **Prerequisite: Textiles & Apparel I**

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22221 **MONEY & RELATIONSHIPS** (Grades 11-12) 1/2 credit      non-ranked

This program will help make relationships work for young adults. It will strengthen the families they live in now and build strong families in the future. This course will teach students economic principles, how to manage family and personal finances and how to make well-informed purchasing decisions.

## PHYSICAL EDUCATION / HEALTH EDUCATION COURSES

08130 **PHYSICAL EDUCATION** (Co-Ed; Grade 9)

1/2 credit

non-ranked

This course will incorporate an assortment of different activities that meet State and National Standards. Activities will include traditional PE ideas as well as new ideas in PE. Students will undergo units such as:

- Competitive Sport
- Team Building
- Outdoor Pursuits
- Invasion Games
- Net/Wall Games
- Lifetime Leisure
- Fitness
- Dance

The goal of this course is to give students the necessary knowledge and skills to become physical literate individuals who are confident in movement and prepared for a lifetime of physical activity.

Each week in this course students will be introduced to beneficial activities outlined in the units above. Students will be informed on why they are learning the activity and how it is applicable to their life outside of Meadville High School. Physical activity preference is personal to each individual and this course will allow for a wide sampling of physical activities that students can experience and then decide which one they prefer the most. This course allows for the traditional aspect of competitive sport and games for students that still enjoy competitive activities but also introduces new activities to broaden students' physical activity knowledge.

This course is aligned with SHAPE America standards 1-5.

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08204 **HEALTH EDUCATION** (Grade 9)

1/2 credit

non-ranked

Health education will be offered for students in 9th grade. The curriculum is designed to meet the needs and interests of the students with the emphasis on wellness and healthy lifestyles. Units offered, pertain to nutrition, mental health, body systems, tobacco, drugs, alcohol, sexuality, human development, AIDS education, sexually transmitted infections, reaching maturity, first aid, and introduction to CPR.

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08133 **LIFETIME WELLNESS** (Co-Ed; Grades 10-12)

1/2 credit

non-ranked

(Low-Impact Activities)

This class will meet five days a week for a semester.

The goal is to engage students in a variety of low impact wellness activities that meet the needs and interest of the students. This class will build muscular strength and endurance, cardiovascular strength and endurance, physical flexibility, and stress management techniques to help students achieve optimal physical and mental well-being.

Activities including but not limited to: Fitness walking, flexibility activities, core body strengthening activities, proper breathing biomechanics, Zumba, personal strategies to manage stress, creative movement, and free weight: high repetition low weight activity.

08134 **COMPETITIVE SPORTS** (Co-Ed; Grades 10-12)

1/2 credit

non-ranked

This course is designed for individuals who enjoy competition. This class takes a primarily sport focus along with many other team activities to promote full participation and challenge. Some activities that you will participate in are as follows:

- Ultimate Frisbee
- Omnikin
- Various sports (hockey, basketball, soccer, etc.)
- Invasion games

After taking this course, individuals will be able to successfully participate in a wide variety of competitive activities. You will learn how to successfully work as part of a team and practice good sportsmanship.

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08132 **PERSONAL WELLNESS** (Grades 10-12)

1/2 credit

non-ranked

Personal Training is a semester-long course focusing on setting a personal fitness goal to be achieved through cardiovascular exercise and weight training primarily (but not limited to) utilizing equipment in the cardio/weight room.

At Mid-semester, progress will be assessed, and goal(s) reevaluated and adjusted to allow for continued success for the remainder of the semester.

**Sample Goals:**

- Increased muscular strength and endurance
  - Increased heart health
  - Weight Management
  - Stress Reduction
- 

08135 **PHYSICAL EDUCATION – HYBRID**

1/2 credit

non-ranked

This course is reserved for CTC students only.

## SECONDARY GIFTED PROGRAM GRADES 9-12

The Crawford Central School District Secondary Gifted Program is designed to promote challenging learning opportunities within the scope of the regular curriculum, as well as enhance individual student strengths, communication skills, and student self-advocacy.

The Secondary Gifted Program provides programming through enrichment programs, differentiating instruction within the high school curriculum, and acceleration of courses, which may include early access to Advanced Placement courses and college credit. Individual student programming options are made during the GIEP conference.

### **Allegheny Enrichment Program**

All gifted students also have the opportunity to participate in enrichment seminars at Allegheny College with guest instructors throughout the school year.

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22300 **Gifted and Talented Enrichment** (Grades 9-12) 1 credit non-ranked

G.A.T.E. is an elective class for students interested in, and capable of doing, high-level independent work in areas of personal interest. Individually, students will propose, research, and present a complex enrichment project to parents, teachers, and classmates. As a group, students in the class will work on higher-order thinking skills, problem-solving, and creative reasoning. Students will choose books and articles to read and participate in small-group discussions. Students registering for this course should be highly motivated and have interests they would like to pursue at an in-depth level. During the fall semester, students will have the option of participating in a Mock Trial competition program in place of completing an independent project.

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22301 **Gifted and Talented Enrichment** (Grades 9-12) 1/2 credit non-ranked

G.A.T.E. is an elective class for students interested in, and capable of doing, high-level independent work in areas of personal interest. Individually, students will propose, research, and present a complex enrichment project to parents, teachers, and classmates. As a group, students in the class will work on higher-order thinking skills, problem-solving, and creative reasoning. Students will choose books and articles to read and participate in small-group discussions. Students registering for this course should be highly motivated and have interests they would like to pursue at an in-depth level. During the fall semester, students will have the option of participating in a Mock Trial competition program in place of completing an independent project.

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22401 **Innovation Class: Project Invent** (Grades 9-12) 1/2 credit non-ranked

The world needs more problem-solvers – people who can take questions and turn them into ideas and solutions. In this class, students will work closely with community partners to develop technologies to help people. Students will practice empathy, creative problem solving, and collaboration skills. Students will learn basic electronics and coding skills to build and market a product to meet a specific need. **No prerequisite: this class is open to all students.**

# SPECIAL EDUCATION PROGRAM

The chief aim of the Special Education Program is to provide the students with the basic skills, academic tools, and knowledge to assume a realistic role in the family, community, and society at large.

General requirements for graduation include: (1) successful completion of a four-year high school program with passing grades, and/or (2) successful completion of occupational training or other academic programs as recommended per the I.E.P. (Individual Education Program)

The Special Education Program consists of various replacement and collaborative courses as well as tutorial resource classes. Classes consist of freshmen, sophomores, juniors, seniors, and any combination thereof. Student assignments are made based on I.E.P. conferences. Replacement classes may consist of Math, English, Social Studies, and Science. The curriculum content closely follows regular class curriculum. Lessons are designed to meet individual needs and learning styles of students.

Co-taught classes are regular education classes in which a regular subject teacher and a learning support teacher share the responsibility for teaching the course contents. Co-taught classes cannot be guaranteed due to scheduling process.

Resource periods provide the students with tutorial assistance with mainstreamed subjects, improvement of study skills, and organizational skills. Resource is a non-credited class.

## Replacement Courses Offered 2025 – 2026 (by I.E.P. only)

**Core courses are 1 credit / A=4**

### 9th Grade

|                                 |                          |
|---------------------------------|--------------------------|
| 01501 General English 9         | 02501 General Math 9     |
| 01507 General English 9E        | 02505 General Math 9E    |
| 01520 General English AS        | 02520 General Math AS    |
| 04501 General Social Studies 9  | 03501 General Science 9  |
| 04507 General Social Studies 9E | 03507 General Science 9E |
| 04100 General Social Studies AS | 03520 General Science AS |

### 10th Grade

|                                  |                           |
|----------------------------------|---------------------------|
| 01502 General English 10         | 02502 General Math 10     |
| 01508 General English 10E        | 02506 General Math 10E    |
| 01520 General English AS         | 02520 General Math AS     |
| 04502 General Social Studies 10  | 03502 General Science 10  |
| 04508 General Social Studies 10E | 03508 General Science 10E |
| 04100 General Social Studies AS  | 03520 General Science AS  |

### 11th Grade

|                                  |                           |
|----------------------------------|---------------------------|
| 01503 General English 11         | 02503 General Math 11     |
| 01509 General English 11E        | 02509 General Math 11E    |
| 01520 General English AS         | 02520 General Math AS     |
| 04503 General Social Studies 11  | 03503 General Science 11  |
| 04509 General Social Studies 11E | 03509 General Science 11E |
| 04100 General Social Studies AS  | 03520 General Science AS  |

### 12th Grade

|                                  |                           |
|----------------------------------|---------------------------|
| 01504 General English 12         | 02504 General Math 12     |
| 01510 General English 12E        | 02510 General Math 12E    |
| 01520 General English AS         | 02520 General Math AS     |
| 04504 General Social Studies 12  | 03504 General Science 12  |
| 04510 General Social Studies 12E | 03510 General Science 12E |
| 04100 General Social Studies AS  | 03520 General Science AS  |

|   |           |            |
|---|-----------|------------|
| 22505 <b>TRANSITIONAL OCCUPATION- AM</b> (Grade 12)<br>(SEGUE-Teacher Recommendation) | 4 credits | non-ranked |
| 22504 <b>TRANSITIONAL OCCUPATION- PM</b> (Grade 11)<br>(SEGUE-Teacher Recommendation) | 4 credits | non-ranked |
| 22501 <b>SOCIAL SKILLS E</b> (9-12)   | 1 credit  | non-ranked |
| 22503 <b>SOCIAL SKILLS AS</b> (9-12)  | 1 credit  | non-ranked |
| RO201 <b>RESOURCE</b> (9-12)  |           | non-ranked |
| RO202 <b>AS RESOURCE</b> (9-12)   |           | non-ranked |
| RE201 <b>ES RESOURCE</b> (9-12)   |           | non-ranked |

# CTC COURSES

**(A.M. Courses = 4 credits / P.M. courses = 4 credits)**

20115-20116 **AUTO COLLISION TECHNOLOGY** (Grades 10-12)

3-year program

The Auto Collision course includes instruction in the removal of dents, repair of rusted or damaged panels, replacement and installation of parts and accessories, preparation and refinishing of spot repairs, complete auto painting and refinishing and straightening of frame structures. Additional learning experiences are provided in using small hand tools, specialized equipment including the most modern tools used in the collision trade and estimating the cost of repairs.

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20103-20104 **AUTO TECHNOLOGY** (Grades 10-12)

3-year program

This course provides practical instruction in the diagnosis, repair and adjustments of problems related to gasoline-powered motor vehicles. The mechanic must determine what tools and parts are necessary to repair the car, estimate the cost of repairs, and discuss the entire situation with the customer. Areas of study include transmissions, hydraulic brake systems, electrical and cooling systems, motor tune-up and front-end alignments.

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17002-17003 **CARPENTRY** (Grades 10-12)

3-year program

The curriculum will deal with the erection and installation of buildings and other structures using assorted materials such as metal, wood, glass, concrete, or composition substances. Instruction is provided in the basic skills of carpentry, masonry, and a variety of activities associated with building construction. These include cost estimating, cutting, fitting, fastening, and finishing various materials. Students will use a variety of hand powered tools; learn blueprint reading and following technical properties of materials.

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10001-10003 **COMPUTER & INFORMATION SCIENCE** (Grades 10-12)

3-year program

This program concentrates on studies required to achieve the 2-year and 1-year certifications. The student becomes skilled at computer maintenance and repair, and network fundamentals. The CompTIA, IT Fundamentals and A+ certifications are the industry standard for computer support technicians. These certifications prove competence in areas such as installation, preventative maintenance, networking, security, and troubleshooting. Information technology, even in a tough economy, is a rapidly growing and necessary field. Students who achieve their CompTIA certifications means increased job security, additional career opportunities and increased credibility in the workplace

***(Senior year is weighted A=5)***

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19100-19101 **COSMETOLOGY** (Grades 10-12)

3-year program

The Cosmetology course provides students the training required to become state licensed Cosmetologists. In the exciting world of style and fashion, the Cosmetology classroom is on the “cutting edge”. Classroom instruction and clinical experience provide the training needed to perform skills used in today’s ever-changing industry. Upon completion of this 1250 required-hour course, the student is prepared to take the state examination for a Cosmetologist license in Pennsylvania. Employment opportunities are limitless as cosmetologists; this license enables cosmetologists to work in any salon, be make-up artists, wedding and event stylists, product educators, sales representatives, color specialists, artistic directors, a business owner, or many other opportunities.

16052-16053 **CULINARY ARTS & RESTAURANT MANAGEMENT** (Grades 10-12)

3-year program

The Culinary Arts & Restaurant Management course provides theory and practice for food preparation and service required for success in the food service industry. Students learn how to operate and care for kitchen equipment, prepare, and serve food, plan menus, and a variety of skills required to operate and maintain a restaurant. Students practice their serving techniques at the on-site restaurant. Participants have the opportunity to achieve multiple national certifications.

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20106-20107 **DIESEL TECHNOLOGY** (Grades 10-12)

3-year program

The Diesel Technology course prepares students for the future by including the study of small engine technology along with training in diesel service and maintenance. The course offers training in all areas of mechanics including diagnosis, overhaul, and maintenance for automotive, agricultural, trucking, and recreational vehicles. Students are able to train, test and qualify for the PA State Inspection License. All this adds up to an exciting and valuable training opportunity for the future mechanical technician.

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21001-21003 **DRAFTING & DESIGN TECHNOLOGY** (Grades 10-12)

3-year program

The Drafting and Design Technology/CADD class is devoted to training students for college engineering programs and the work force. This course will provide a broad and thorough knowledge of the principal methods by which draftspersons, engineers, technicians, and designers in the field express ideas to the craftsperson's who fabricate the item used in everyday life. Work in this course will give the student an opportunity to develop the necessary technical skills in the use of 2D CADD software, 3D solid modeling, and 3D printing used to produce electronic files and rapid prototypes. Emphasis is placed upon acquiring the necessary technical knowledge to be able to orally, graphically, mathematically, and scientifically translate the idea of the engineer, technician, and tradesperson into a practical graphic language. The course stresses the relationship between theory and practice through the application of principles that provide entry level skills and "hands-on" experiences on computer aided drafting systems. Areas of specialization include mechanical, architectural, and civil drafting as well as technical illustration.

*(Senior year is weighted A=5)*

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17101-17102 **ELECTRICAL OCCUPATIONS** (Grades 10-12)

3-year program

The Electrical Occupations course includes training in layout, assembly, installation, and testing of wiring and devices used in heating, lighting, power, motor control and other electrical systems at residences, factories, commercial, and other buildings. Classroom work includes electrical theory, diagram, and blueprint reading, estimating for electrical repair and building wiring, and electrical and occupational safety, health act code requirements. Students will work in the shop to perform house wiring, motor, and motor control projects.

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17105-17107 **ELECTRONICS TECHNOLOGY** (Grades 10-12)

3-year program

The Electronics Technology Course is designed to give students a working knowledge of Basic Electricity and Electronics, Analog Electronics and Digital Electronics. The knowledge gained through this course prepares the student for an entry level position in the field. It is an excellent preparatory for post-secondary education where the student can earn an associate degree or Engineering Degree from a number of institutions of higher learning. Some regional post-secondary technical schools and colleges have articulation agreements with the Career and Technical Center. This provides opportunity for the student to earn credit towards college courses while still in high school. Electronics continues to be a high-demand field in most of the country.

Graduates of this program are currently employed in several sectors of the industry including communications, avionics, telecommunications, biomedical engineering, industrial controls and maintenance, various manufacturing sectors, education and more.

All branches of the armed services offer tremendous opportunities to graduates of the Electronics Technology course in a myriad of fields. Graduates from the program have or are currently serving in all branches as communications specialists, intelligence and counter-intelligence specialists, electronics technician, guidance technicians, the Navy Nuclear Power Program technicians and more.

*(Senior year is weighted A=5)*

14001-14002 **HEALTH OCCUPATIONS** (Grades 10-12)

3-year program

The Health Occupations course introduces students to varied aspects of the Health Care profession. The first-year students are introduced to basic anatomy, physiology, medical terminology, and hands-on training of 61 beginning health care skills. Students spend time researching medical careers as well.

The second year of the course deals with health care information related to direct care of the sick, disabled, or infirm. The training is applicable toward certification as a Nurse's Aide. Students will earn OSHA-10 Healthcare Industry Certification as well. Students will be provided a clinical experience as part of their training.

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14050-14051 **HEATING, VENTILATION, & AIR CONDITIONING TECHNOLOGY** (Grades 10-12) 3-year program

The Heating, Ventilation, Air Conditioning (HVAC) Technology program will prepare students to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. The program will have a solid educational base on which to build a post-secondary degree or advanced certifications. This program will require a high aptitude in mathematics and problem solving.

*(Senior year is weighted A=5)*

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13201-13203 **PRECISION MACHINING** (Grades 10-12)

3-year program

The precision machining curriculum is designed to provide entry Level instruction in setting up and operating industrial type machinery. A machinist is a skilled worker who, working from blueprints and written/verbal specifications, can operate all kinds of machine tools to cut, drill, grind, or otherwise shape and size material with an extremely high degree of accuracy to make the part to the print.

Machinists and toolmakers are skilled workers who provide tools and special guiding and holding devices that are used to mass-produce a variety of machined parts. Using basic manual machines, advanced CNC machine tools, and precision measuring instruments, students work with the metals and alloys commonly used in manufacturing and hold tolerances acceptable in industry.

In this course the student will develop a basic knowledge of machine operation, standard shop practices, blueprint reading, metal processes, heat treating and related mathematics. All machines and instruments are commonly used in industry. One hour of related theory will be provided for every six hours in the shop. The students practice their skills by making precision tools which they get to keep and use in their career in the machining industry.

*(Senior year is weighted A=5)*

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14060-14063 **VETERINARIAN TECHNOLOGY** (Grades 10-12)

3-year program

The Veterinary Program will prepare individuals, under the supervision of veterinarians, laboratory animal specialists, and zoological professionals, to provide patient management, care, clinical procedure assistance, and owner communication. Students will receive training to enter entry level positions, as well as a solid educational base on which to build a post-secondary degree.

*(Senior year is weighted A=5)*

13206-13207 **WELDING** (Grades 10-12)

3-year program

Welding is the process of joining pieces of metal by applying intense heat to melt or fuse the metal with the use of an electric arc or gas flame. It is the most common method of permanently connecting various metal parts that go into the construction of automobiles, spacecraft, ships, household appliances, and steel reinforcing rods in bridges, buildings, and roads.

Students in the welding technology course will learn gas, arc, TIG, MIG, flux core, and pipe welding in accordance with the American Welding Society and the American standard of testing material specification, passing all-position guide bend tests. This will qualify the student as an all-position welder. The welding student will also learn blueprint reading, welder's math for fabrication, fabrication, and arc-air cutting process. Safety is stressed in all areas of welding.

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15050-15051 **SPORTS MEDICINE – REHABILITATIVE SCIENCE** (Grades 10-12)

3-year program

The purpose of the Sports Medicine – Rehabilitative Sciences program is to prepare students to assist in rehabilitation services under the supervision of physical therapist, occupational therapist, speech/language pathologist, nutritionists, sports medicine professionals and other therapeutic professionals, and to perform routine functions in support of rehabilitation.

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22153 **DIVERSIFIED OCCUPATIONS (CO-OP)** (Grade 12)

1-year program

The Co-Op/Internship is for qualified home school seniors not currently attending Crawford County Career Tech who wish to participate in Cooperative Education. Students attend MASH for half of the day to complete academic requirements for graduation and spend the other half of the day on the job at school approved work sites.

Employers sign a training agreement with MASH and the student. Grades are based on employer evaluations of the student's work performance.

This program is available only to seniors attending Meadville Area Senior High School. This course does not qualify a student for the Career Tech graduation requirement option.

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22154 **DIVERSIFIED OCCUPATIONS (CO-OP)** (Grade 12)

Diversified Occupations is a planned vocational program which is offered here at the career center. The program prepares a diverse group of students for more than one vocational education area of instruction for gainful employment. The program is a direct relationship/partnership between a local business/industry and the CCCTC.

Employers sign a training agreement with Crawford County CTC to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at the Career Tech School. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from Crawford County CTC.

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22151 **CAPSTONE CO-OP** (Grade 12)

Capstone Co-Op is open to current Career Tech seniors with a job related to the occupational field in which the student is currently studying at Crawford County CTC. The student must have completed the basic skill competency training in their shop area and continue training in that field on the job. The student must be recommended by their instructor and have acceptable conduct and classroom grades. Students attend MASH for half of the day to complete academic requirements for graduation and spend the other half of the day on the job at school approved work sites.

Employers sign a training agreement with Crawford County CTC to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at the Career Tech School. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from Crawford County CTC both in their shop area and Capstone Co-Op.

## NCAA APPROVED COURSES

### ENGLISH

CREATIVE WRITING 9-12  
 PUBLIC SPEAKING 11-12  
 INTRO TO JOURNALISM 9-10  
 MYTHOLOGY 10-12  
 ACADEMIC ENGLISH 9  
 ACADEMIC ENGLISH 10  
 ACADEMIC ENGLISH 11  
 ACADEMIC ENGLISH 12  
 ACCELERATED ENGLISH 9  
 ACCELERATED ENGLISH 10  
 ACCELERATED ENGLISH 11  
 ACCELERATED ENGLISH 12  
 AP ENGLISH LITERATURE AND COMPOSITION

### SOCIAL STUDIES

19TH CENTURY US HISTORY - ACCEL  
 19TH CENTURY US HISTORY-ACADEMIC  
 20TH CENTURY WORLD HISTORY -ACADEMIC  
 AP UNITED STATES HISTORY  
 CIVICS AND GOVERNMENT - ACADEMIC  
 CIVICS AND GOVERNMENT - ACCEL  
 AP EUROPEAN HISTORY  
 WORLD GOVERNMENT AND ECONOMICS  
 CULTURAL ANTHROPOLOGY 11-12

### MATH

GEOMETRY - ACADEMIC 10-12  
 GEOMETRY - ACCELERATED 10-12  
 SELECTED TOPICS - 11  
 PRACTICAL ALGEBRA (A) 9 0.5  
 PRACTICAL ALGEBRA (B) 10-11 0.5  
 ALGEBRA I – ACADEMIC 9-12  
 ALGEBRA II – ACCELERATED 9  
 ALGEBRA II – ACADEMIC 9  
 ALGEBRA II – ACADEMIC 10-12  
 INTRO TO TRIGONOMETRY W/ REV. OF ALGEBRA II  
 PRE-CALCULUS - ACADEMIC  
 AP STATISTICS  
 ELEMENTARY FUNCTIONS  
 ACADEMIC CALCULUS  
 AP CALCULUS AB

### LANGUAGES

FRENCH I  
 FRENCH II  
 FRENCH III  
 FRENCH IV  
 FRENCH V  
 SPANISH I  
 SPANISH II  
 SPANISH III  
 SPANISH IV  
 SPANISH V

*Both Practical Algebra A, Practical Algebra B are worth .5 credits each towards NCAA requirements*

### SCIENCE

|                            |   |
|----------------------------|---|
| ACADEMIC BIOLOGY 9-10      | X |
| HONORS BIOLOGY 9-10        | X |
| ANATOMY & PHYSIOLOGY 11-12 | X |
| AP BIOLOGY 12              | X |
| ACADEMIC CHEMISTRY 11-12   | X |
| HONORS CHEMISTRY 10-12     | X |
| AP CHEMISTRY 11-12         | X |
| ACADEMIC PHYSICS 11-12     | X |
| AP PHYSICS I 11-12         | X |
| AP PHYSICS II 12           | X |

*X indicates that the course is credited as a laboratory course*