2024-2025

SENECA HIGH SCHOOL

COURSE SELECTION PLANNING GUIDE

FOR STUDENTS AND PARENTS

****

**Seneca High School**

***10770 Wattsburg Road Erie, PA 16509***

***(814) 824-3400***

***www.wattsburg.org***

Dear Student / Parents:

The following information will assist you in creating an appropriate schedule for the next school year. Please choose courses carefully to ensure you are satisfying graduation requirements and post-secondary aspirations. In addition, please be sure that you have taken the proper prerequisites to register for your desired courses.

If you wish, you may schedule an individual session with your guidance counselor to ensure the most accurate and appropriate course requests. In order to ensure that class sizes are as balanced as possible, the master schedule is created based on your course selections. Therefore, schedule changes that occur after the school year may be difficult to make since courses may already be full or they may be scheduled at a time when they cannot fit into your schedule. Make your selections carefully.

We encourage you to study this scheduling handbook carefully. Please remember that the scheduling choices you are making now can significantly impact future options. We recommend that you appropriately challenge yourself and schedule courses that steer you toward your post-secondary goals. If you have any questions, please contact your guidance counselor (824-4119).

*Sincerely,*

Tim Malinowski

*Tim Malinowski*

*Class of 2025 & 2027*

*Tim.Malinowski@wattsburg.org*

Elizabeth Diehl

*Elizabeth Diehl*

*Class of 2026 & 2028*

*Elizabeth.Diehl@wattsburg.org*

**SCHEDULING PROCEDURES**

* 1. Admission to appropriate levels in the core courses (math, English, science, and social studies) is determined by teacher recommendation as well as a thorough review of grades and standardized testing scores (PSSAs, Keystones, and CDTs). Final decisions will be made by Seneca administration and guidance.
  2. Appeal process
     + To appeal any scheduling decisions, a scheduling appeals form must be completed (these are found in guidance). This must be submitted along with your schedule requests to your guidance counselor.
     + After the written appeal has been received, grades and test results will be reviewed.
     + Appeals that meet the criteria for change will be forwarded to the principal.
     + If necessary, the written appeal will be forwarded to the assistant superintendent.
     + If a student requests to drop down a level from the teacher recommendation, the student’s parent must contact the instructor of the recommended course before the change will be made.
  3. Administration reserves the right to change any course selection based on extenuating circumstances. This will include, but not be limited to, level of student interest and staff availability.

**WEIGHTED CLASSES**

Many classes have been designated as “weighted” because of their accelerated academic difficulty. Weighted classes receive additional points when calculating grade point average. See the chart below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Advanced Placement (AP)/Dual Enrollment** | | **Honors/ECTS (years 2 & 3)** | | **All Others** | |
| Grade | Weighted | Grade | Weighted | Grade | Weighted |
| A | 5 | A | 4.5 | A | 4 |
| B | 4 | B | 3.5 | B | 3 |
| C | 3 | C | 2.5 | C | 2 |
| D | 2 | D | 1.5 | D | 1 |
| F | 0 | F | 0 | F | 0 |

**ATTENTION ALL COLLEGE BOUND STUDENTS: The more competitive your college of choice is,**

**the more imperative it is to take the most challenging courses available.**

**CREDIT REQUIREMENTS FOR PROMOTION**

To be promoted to the next grade level, students must have the following credits:

|  |  |  |
| --- | --- | --- |
| Promotion to 9th grade | requires | Successful completion of 8th grade |
| Promotion to 10th grade | requires | 6 credits (8 possible) |
| Promotion to 11th grade | requires | 13 credits (16 possible) |
| Promotion to 12th grade | requires | 20 credits (24 possible) |
| Graduation | requires | 28 credits (32 possible) |

**Wattsburg Area School District Graduation Requirements**

A student must achieve credits for the subject areas prescribed in the chart below:

|  |  |
| --- | --- |
| **Subject Area** | **Minimum Credits** |
| English | 4.0 |
| Math | 4.0 |
| Science | 4.0 |
| Social Studies | 4.0 |
| Physical Education | 2.0 |
| Health | 1.0 |
| Business / Technology | 2.0 |
| Electives | 7.0 |
| **Total** | **28.0** |

* A student must pass Algebra II and geometry; this may require more than four math credits.
* Due to ECTS labs encompassing 12 elective credits, an ECTS student requires 3 credits in science and social studies, 1 credit in physical education, and is exempt from the business/technology credits.
* All students must complete a Career Portfolio.

In addition to the WASD credit requirements described above, Pennsylvania requires that a student meets state determined criteria in one of the following five pathways to graduation:

|  |  |  |
| --- | --- | --- |
| **Option** | **Pathway** | **Criteria** |
| #1 | Keystone Proficiency | A student scores proficient or advanced on each Keystone Exam - Algebra I, Literature, and Biology. |
| #2 | Keystone Composite | A student meets or exceeds a state-specified composite score across the three Keystone exams, **and** performance must include at least 1 proficient and 2 basics. |
| #3 | Alternate Assessment | A student earns a passing grade in the courses associated with each Keystone Exam and satisfactorily completes one of the following: an alternative assessment (SAT, PSAT, ACT, ASVAB, Gold Level ACT WorkKeys), advanced coursework (AP, IB, concurrent enrollment courses), pre-apprenticeship, or acceptance in a 4-year nonprofit institution of higher education for college-level coursework. |
| #4 | Evidence Based | A student earns a passing grade in the courses associated with each Keystone Exam and passes either the National Occupational Competency Testing Institute (NOCTI) assessment or the National Institute of Metalworking Skills (NIMS) assessment in an approved Career and Technical Education concentration. |
| #5 | Career and Technical Education | A student earns a passing grade in the courses associated with each Keystone Exam and demonstrates readiness for postsecondary engagement through three pieces of evidence from the student’s career portfolio aligned to student goals and career plan. Examples of evidence will include ACT WorkKeys, SAT subject tests, AP, IB and concurrent coursework, higher education acceptance, community learning project, completion of an internship, externship or co-op or full-time employment. |

**SPECIAL PROGRAMS**

**ERIE COUNTY TECHNICAL SCHOOL (ECTS)**

* Students may apply to the Erie County Technical School. See specific lab descriptions in the back of this handbook. The number of openings available to any given program is limited and selection for openings is very competitive. Therefore, the following criteria are considered when selecting students: student grades, student attendance, student behavior, and career focus. ECTS courses will be weighted at the HON course level for 2nd and 3rd year participants.

**DUAL ENROLLMENT**

Seneca High School participates in Dual Enrollment with local colleges and universities. Dual Enrollment allows junior and senior students to take college courses from local colleges at a significantly reduced tuition rate. A brief overview of WASD Policy 124 is provided below, please refer to the full version of WASD Policy 124 for a detailed list of requirements to register for dual enrollment courses.

* The student is a **junior or** **senior**with a minimum GPA of 3.50, **has less than three unexcused/illegal absences, and has a minimum 95% attendance rate in the prior/current school year.**
* **Keystone Exams:** **The student must have completed state graduation requirements required under Act 158, Pathway 1 (Keystone Proficiency Pathway) or Pathway 2 (Keystone Composite Pathway).**
* All courses required for graduation will be scheduled at Seneca **prior to dual enrollment course scheduling**.
* **No postsecondary course shall be substituted for a required course or elective** unless included in an approved Gifted or Individualized Education Program.
* **Postsecondary courses shall supplement and shall not supplant equivalent courses offered at Seneca.**
* The course is approved in advance by the student’s guidance counselor and the high school principal.
* The student assumes responsibility for all fees **and transportation**.

**AIR FORCE JUNIOR ROTC PROGRAM (AFJROTC)**

Through Air Force Junior Reserve Officer Training Corps, students will become better citizens and leaders – confident, self-reliant, and self-disciplined. Students will explore the civilian, industrial, and military aspects of aerospace. Career-minded high school students will learn about jobs in the Air Force that will open important opportunities for the future. College bound students may receive an Air Force Academy nomination or an Air Force ROTC scholarship, if qualified, directly through their Air Force junior ROTC unit or they may receive credit for the first year of an Air Force ROTC four-year college program. In addition, free uniforms, insignia, and ROTC textbooks are provided.

**A more detailed description of this program is available upon request.**

**INTERNSHIPS – SENIORS ONLY (ON CAMPUS)**

The purpose of an internship during the junior or senior year is to explore an area of career interest. During the scheduling process, the student must fill out an application explaining how the internship will provide career exploration in that area. Once approved by the teacher and accepted into the program, the student will be notified. There is a limited number of internship openings each year; therefore, it is possible that not all students that apply will be chosen for an internship. Students must pick up an application in the guidance office.

**NCAA CLEARINGHOUSE**

If you plan on playing sports in college, you must prepare yourself academically. The NCAA requires that student athletes take a certain number of “core courses” in order to participate in Division I or Division II athletics. Interested Seneca students MUST talk to their counselor about what classes they should take. This should occur as early as your freshman year **before** you schedule your classes.

**COOPERATIVE EDUCATION PROGRAM**

Cooperative education is a structured method of instruction combining school-based classroom learning with productive work-based learning in an occupation matching the student’s academic and career objectives. At the secondary level, cooperative education involves a planned partnership with specified connecting activities and responsibilities among students, parent/guardians, schools, employers, labor organizations and government. These specified connecting activities and responsibilities include, but are not limited to, the following:

1. School-based learning activities including career awareness, career exploration and counseling, and the initial selection of a career objective by interested students.
2. Student enrollment in a PDE-approved career and technical education program which facilitates linkages with postsecondary education, a coherent multi-year sequence of instruction and the opportunity for full-time employment.
3. A written training agreement outlining responsibilities and a training plan detailing work-based competencies relevant to the student’s career choice.
4. Students receive pay comparable to entry-level wage.
5. Supervision, coordination, monitoring and evaluation of student progress and performance between the school-based and work-based learning components are performed by appropriately certified professional school personnel because school credit is to be awarded for this experience. A minimum of one on-site visit per month is required.
6. An employer/employee relationship exists therefore, all state and federal laws regarding employer/employee relationships are enforced. Particular attention shall be given to the Child Labor Act regarding work permits, working hours, insurance, workers’ compensation, safety, and hazardous occupations.
7. Cooperative education teacher-coordinators shall complete a training agreement and training plan and receive copies of each student’s employment certificate or work permit and proof of workers’ compensation before the student is placed at the work site.

CAREER FOCUS

**at Seneca High School**

**AREAS OF FOCUS:**

**Arts and Communications**

**Business, Finance, and Information Technology**

**Engineering and Industrial Technology**

**Human Services**

**Science and Health**

*Why should a student choose a career focus?*

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

The Mission…

Focusing on a career goal links what students learn in school with the knowledge and skills they need for success in college and careers. It creates a system where the high school is directly connected to jobs and post-secondary training. This direct connection to future goals motivates students to work harder and enroll in courses that are more rigorous.

Students interested in entry level or technical careers are encouraged to take the most challenging courses available. Students interested in professional careers are strongly encouraged to take Honors (HON), Advanced Placement (AP), and/or Dual Enrollment courses.

ARTS AND COMMUNICATIONS

These careers cultivate students’ awareness, interpretation, application, and production of visual, verbal, and written work.

Do you enjoy…

* Playing an instrument?
* Singing?
* Acting?
* Performing in front of a live audience?
* Expressing creative ideas?
* Working with computers?
* Writing?
* Selling?
* Working with film?

*If you answered “Yes” to most of these questions, you might consider a future in one of the occupations listed in the Arts & Communications Academy based on their level of post-secondary training.*

SAMPLE CAREERS

|  |  |  |
| --- | --- | --- |
| **ENTRY LEVEL** | **TECHNICAL/SKILLED**  **(1-3 YEARS OF EDUCATION)** | **PROFESSIONAL**  **(4+ YEARS OF EDUCATION)** |
| Model | Actor | Art or Music Teacher |
| Radio Operator | Book Illustrator | Cinematographer |
| Stage Hand | Choreographer | Composer |
| Stunt Performer | Dancer | Film Editor |
| Film Loader | Disc Jockey | Music Critic |
| Floral Designer | Musician | Music Director |
| Florist | Animator | News Broadcaster |
| Sound Tech | Artist | Curator |
| Desktop Publisher | Broadcast Tech | Art Director |
| Circulation | Camera Tech | Industrial Designer |
| Copy Person | Fashion Designer | Copy Writer |
| Newsroom Worker | Jeweler | News writer |
|  | Make-up Artist | Telecommunications |
|  | Photographer | Writer |
|  | Recording Engineer |  |
|  | Graphic Artist |  |
|  | Web Designer |  |
|  | Video Manager |  |

**BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY**

Focusing on these careers prepares students for employment in business, finance, and information services.

Do you enjoy…

* Using computers and technology?
* Paying attention to details?
* Organizing projects?
* Selling products and services?
* Processing numbers and figures?
* Learning new software?
* Making budgets?
* Making presentations to groups?
* Planning an event?

*If you answered “Yes” to most of these questions, you might want to consider a future in one of the occupations listed in the Business Academy based on their level of post-secondary training.*

SAMPLE CAREERS

|  |  |  |
| --- | --- | --- |
| **ENTRY LEVEL** | **TECHNICAL/SKILLED**  **(1-3 YEARS OF EDUCATION)** | **PROFESSIONAL**  **(4+ YEARS OF EDUCATION)** |
| Customer Service Representative | Computer Salesperson | Marketing Manager |
| Travel Agent | Bank Collection Officer | Economist |
| Telemarketer | Tax Preparer | Financial Planner |
| Bookkeeper | Claims Adjuster | Tax Examiner |
| Cashier | Software Engineer | Operations Analyst |
| Payroll Clerk | Computer Programmer | Systems Analyst |
| Title Searcher | Production Support Analyst | Hospital Administrator |
| Computer Operator | Desktop Publisher | Human Resource Manager |
| Accounts Payable Office Manager | Medical Secretary | Chief Executive Officer |
| Administrative Assistant | Real Estate Agent | Manufacturing Sales Representative |
| Bank Teller | Restaurant Manager | Bank President |
| Retail Salesclerk | Sales Representative |  |
| School Secretary |  |  |

ENGINEERING AND INDUSTRIAL TECHNOLOGY

Focusing on these careers cultivates students' interest, awareness and application to areas related to technologies necessary to design, develop, install or maintain physical systems.

Do you enjoy…

* Working with your hands?
* Working in a lab setting?
* Operating tools and equipment?
* Designing projects and models?
* Applying science and math to the real world?
* Solving complex problems?
* Understanding maps?

*If you answered “Yes” to most of these questions, you might consider a future in one of the occupations listed is the Engineering academy based on their level of post-secondary training.*

SAMPLE CAREERS

|  |  |  |
| --- | --- | --- |
| **ENTRY** | **TECHNICAL/SKILLED**  **(1-3 YEARS OF EDUCATION)** | **PROFESSIONAL**  **(4+ YEARS OF EDUCATION)** |
| Carpet Installer | Grader & Dozer Operator | Navigator |
| Drywall Worker | Electric Tech | Aeronautical Engineer |
| Roofer | Metal Engineering Tech | Aerospace Engineer |
| Machine Operator | Auto Mechanic | Airline Pilot |
| Baggage Handler | Air Traffic Controller | Architect |
| Warehouse Worker | Auto Body Repair | Civil Engineering |
| Brick Mason | Bus Driver | Chemical Engineering |
| Carpenter | Diesel Mechanic | Computer Network Engineering |
| Electrician | Dispatch | Industrial Engineer |
| Plumber | Motorcycle Mechanic | Mechanical Engineering |
| Machinist | Taxi Driver | Astronaut |
| Diesel Mechanic | Truck Driver | Nuclear Engineer |
| Surveyor | Civil Engineering Tech | Petroleum Engineer |
|  | Robotics Tech | NASA Scientist |
|  | CAD Tech | Transportation Engineer |

HUMAN SERVICES

Focusing on these careers will help students develop the interests, skills, and experience necessary for employment related to human needs.

Do you enjoy…

* Working with people?
* Serving others’ needs?
* Handling complaints?
* Counseling and advising others?
* Selling products and services?
* Interviewing people?
* Working as a team?
* Being creative?

*If you answered “Yes” to most of these questions, you might consider a future in one of the occupations listed in the Human Services academy based on their level of post-secondary training.*

SAMPLE CAREERS

|  |  |  |
| --- | --- | --- |
| **ENTRY** | **TECHNICAL/SKILLED**  **(1-3 YEARS)** | **PROFESSIONAL**  **(4+ YEARS OF EDUCATION)** |
| Child Care Worker | Barber | Funeral Director |
| Cosmetics Representative | Cosmetologist | Marriage and Family Therapist |
| Dry Cleaning Operator | Fashion Designer | College Professor |
| Home Health Aide | Manicurist | Principal |
| Library Assistant | Massage Therapist | Teacher |
| Armed Services | Mortician | City Manager |
| Bailiff | Teacher’s Aide | Criminologist |
| Postal Services Worker | Crime Lab Tech | FBI Agent |
| Security Guard | Fire Fighter | Lawyer |
| Utility Worker | Bartender | Parole Officer |
| Aerobics Instructor | Chauffer | Paralegal |
| Waitress | Flight Attendant | Park Ranger |
|  | Meat Cutter | Athletic Agent |
|  | Personal Trainer | Chef |
|  |  | Food Services Manager |
|  |  | Hotel Management |
|  |  | Family Planner |

SCIENCE AND HEALTH

Focusing on these careers will bolster students' interest in the life, physical and behavioral sciences as well as the planning, managing and providing of therapeutic services, diagnostic services, health information and biochemistry research development.

Do you enjoy…

* Caring for sick animals?
* Working outdoors with wildlife?
* Working with numbers?
* Developing conclusions from data?
* Working with science and math theories?
* Helping others in a medical facility?
* Working with scientific research?

*If you answered “Yes” to most of these questions, you might consider a future in one of the occupations listed in the Science and Health academy based on their level of post-secondary training.*

SAMPLE CAREERS

|  |  |  |
| --- | --- | --- |
| **ENTRY** | **TECHNICAL/SKILLED**  **(1-3 YEARS)** | **PROFESSIONAL**  **(4+ YEARS OF EDUCATION)** |
| Hospital Worker | Certified Nursing Assistant | Athletic Trainer |
| Patient Care Technician | Dental Hygienist | Chiropractor |
| Dialysis Technician | Licensed Practical Nurse | Dietician |
| EEG Technician | Medical Lab Technician | Physician Assistant |
| Home Health Aide | Pharmacy Assistant | Medical Examiner |
| Physical Therapy Aide | Radiological Technician | Pharmacists |
| Animal Caretaker | Respiratory Therapist | Physician |
| Animal Breeder | Sports Instructor | Podiatrist |
| Farm Manager | Dental Lab Tech | Registered Nurse |
| Food Conservation Worker | Fish and Game Worker | Agronomist |
| Wildlife Reserve Worker | Forest Conservationist | Geographer |
| Zoo Caretaker | Veterinary Technician | Geologist |
| Hazardous Waste Technician | Sound Engineer | Marine Biologist |
| Optician | Emergency Medical Technician | Veterinarian |
| Data Entry | Assistant Physical Therapist | Chemist |
|  |  | Soil Conservationist |
|  |  | Geneticist |
|  |  | Statistician |
|  |  | Zoologist |

**COURSE SELECTION GUIDE**

Use the guide below to determine a course’s recommended grade level and whether it fulfills a graduation requirement (GRAD), is an elective course (EL), or if it’s an elective that can also satisfy a graduation requirement (EL/GRAD). Dual Enrollment courses (DE) are typically elective courses unless otherwise indicated.

**Course Abbreviation Key**

HON - Honors AP and DE - Advanced Placement and Dual Enrollment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ENGLISH** | **GRADE LEVEL(S)** | **COURSE TYPE** | **ENGLISH** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| English 9 | 9 | GRAD | English 12 HON | 12 | GRAD |
| English 9 HON | 9 | GRAD | Creative Writing | 9-12 | EL |
| English 10 | 10 | GRAD | AP Language & Composition | 11-12 | GRAD |
| English 10 HON | 10 | GRAD | AP Literature & Composition | 11-12 | GRAD |
| English 11 | 11 | GRAD |  |  |  |
| English 11 HON | 11 | GRAD |  |  |  |
| English 12 | 12 | GRAD |  |  |  |

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| --- | --- | --- | --- | --- | --- |
| **MATH** | **GRADE LEVEL(S)** | **COURSE TYPE** | **MATH** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Principles of Algebra & Geometry | 9 | GRAD | Algebra II | 10-11 | GRAD |
| Algebra I | 9 | GRAD | Algebra II HON | 10-11 | GRAD |
| Algebra I HON | 9 | GRAD | Pre-Calculus HON | 12 | GRAD |
| Integrated Statistics | 10 | GRAD | Statistics | 11-12 | GRAD |
| Geometry | 10-11 | GRAD | RMU - Calculus/Analytical Geom. | 11-12 | GRAD-DE |
| Geometry HON | 10-11 | GRAD |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SCIENCE** | **GRADE LEVEL(S)** | **COURSE TYPE** | **SCIENCE** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Earth and the Environment | 9 | GRAD | \*Anatomy and Physiology HON | 9-12 | GRAD-EL |
| Biology | 10 | GRAD | **\*\*Forensics HON** | 9-12 | GRAD-EL |
| Biology HON | 9-10 | GRAD | \*\*Agricultural Science | 9-12 | GRAD-EL |
| Chemistry HON | 10-12 | GRAD | **\*\*\*RMU - Principles of Biology** | 11-12 | GRAD-DE |
| Physical Science | 11-12 | GRAD | \*\*\*RMU - Environmental Science | 11-12 | GRAD-DE |
| AP Chemistry | 11-12 | GRAD-EL |  |  |  |
| AP Physics | 11-12 | GRAD-EL |  |  |  |
| Physics HON | 11-12 | GRAD |  |  |  |
| **\*Medical Studies** | 9-12 | GRAD-EL |  |  |  |

\* Medical Studies and Anatomy and Physiology are offered in opposing years. Course in **bold** is the current offering.

\*\* Forensics and Agricultural Science are offered in opposing years. Course in **bold** is the current offering.

\*\*\*RMU Principles of Biology and RMU Environmental Science are offered in opposing years. Course in **bold** is the current offering.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SOCIAL STUDIES** | **GRADE LEVEL(S)** | **COURSE TYPE** | **SOCIAL STUDIES** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| US and the World | 9 | GRAD | Medals & Media | 9-12 | EL |
| US and the World HON | 9 | GRAD | Psychology | 10-12 | EL |
| World Cultures | 10 | GRAD | AP Psychology | 11-12 | EL |
| World Cultures HON | 10 | GRAD | **\*RMU - American National Gov.** | 11-12 | GRAD-DE |
| Current Affairs | 11 | GRAD | **\*RMU- Principles of Sociology** | 11-12 | EL - DE |
| Current Affairs HON | 11 | GRAD | \*\*RMU- United States History I | 11-12 | EL- DE |
| Government | 12 | GRAD | \*\*RMU- United States History II | 11-12 | EL - DE |
| Government HON | 12 | GRAD |  |  |  |
| Group Interaction and Leadership | 9-12 | EL |  |  |  |
| Criminal Justice | 9-12 | EL |  |  |  |

\* RMU American National Government is paired with RMU Principles of Sociology. Each course runs for a semester. The courses run on opposite years from the other RMU pairing. Course in **bold** is the current offering.

\*\*RMU United States History I is paired with RMU United States History II. Each course runs for a semester. The courses run on opposite years from the other RMU pairing. Course in **bold** is the current offering.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FINE AND PERFORMING ARTS** | **GRADE LEVEL(S)** | **COURSE TYPE** | **FINE AND PERFORMING ARTS** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Art I | 9-12 | EL | AP Studio Art: 2D Design | 11-12 | EL |
| Art II | 10-12 | EL | Concert Band | 9-12 | EL |
| Art III | 11-12 | EL | Concert Choir | 9-12 | EL |
| Art IV | 12 | EL |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FOREIGN LANGUAGE** | **GRADE LEVEL(S)** | **COURSE TYPE** | **FOREIGN LANGUAGE** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Spanish I | 9-12 | EL | Spanish III HON | 11-12 | EL |
| Spanish II | 10-12 | EL | Spanish IV HON | 12 | EL |

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| --- | --- | --- | --- | --- | --- |
| **PHYSICAL EDUCATION** | **GRADE LEVEL(S)** | **COURSE TYPE** | **PHYSICAL EDUCATION** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Health | 9 | GRAD | Personal Wellness | 9-12 | GRAD-EL |
| Physical Education | 9-12 | GRAD-EL |  |  |  |

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| --- | --- | --- |
| **AIR FORCE JUNIOR ROTC** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| ROTC | 9-12 | EL |

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| --- | --- | --- | --- | --- | --- |
| **BUSINESS & COMPUTER SCIENCES** | **GRADE LEVEL(S)** | **COURSE TYPE** | **BUSINESS & COMPUTER SCIENCES** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Personal Finance | 10 | GRAD | **\*AP Computer Science A** | 9-12 | GRAD-EL |
| Marketing | 9-12 | GRAD-EL | \*AP Computer Science Principles | 9-12 | GRAD-EL |
| Entrepreneurship | 9-12 | GRAD-EL | Cooperative Education | 12 | EL |
| Multimedia Productions | 9-12 | GRAD-EL |  |  |  |

\* AP Computer Science A and AP Computer Science Principles are offered in opposing years. Course in **bold** is the current offering.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **INDUSTRIAL TECHNOLOGY** | **GRADE LEVEL(S)** | **COURSE TYPE** | **INDUSTRIAL TECHNOLOGY** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Woodworking I | 9-12 | GRAD-EL | Pre-Engineering I | 9-12 | GRAD-EL |
| Woodworking II | 10-12 | GRAD-EL |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **FAMILY AND CONSUMER SCIENCE** | **GRADE LEVEL(S)** | **COURSE TYPE** | **FAMILY AND CONSUMER SCIENCE** | **GRADE LEVEL(S)** | **COURSE TYPE** |
| Food Management I | 9-12 | EL | Housing and Interior Design | 9-12 | EL |
| Food Management II | 10-12 | EL | Child Development | 9-12 | EL |

**LIsting of Course Descriptions**

**ENGLISH DEPARTMENT**

**ENGL 01‐100, ENGL 01‐110 ENGLISH 9 GRADE 9 1 Credit**

English 9 will utilize the Study Sync curriculum to build foundations for students preparing for a technical, business, or four-year post‐secondary program following graduation. Upon completion of this course, students will be able to read, discuss, and apply information related to communication, including reading, writing, listening, and speaking skills; incorporate the writing process into business correspondence and informational, persuasive, and narrative writing; expand knowledge of grammar usage and apply to writing; and develop note taking and research skills. Vocabulary, communication, and research skills will give the student a solid foundation for post‐secondary education.

**ENGL 01‐111 CREATIVE WRITING GRADES 9‐12 1 Credit**

This course is for students wishing to express themselves through creative writing. Student will explore of a variety of structured creative forms. The result of the course is a literary magazine; students will actively participate in all steps of the writing process and assume leadership roles in the production stages of the publication.

**ENGL 01‐120 ENGLISH 9 HON GRADE 9 1 Credit**

English 9 HON will utilize the Study Sync curriculum to provide a strong foundation for entrance to college. Upon completion of this course, students will be able to utilize and apply SAT test‐taking strategies; develop note taking and research skills; expand knowledge of contextual vocabulary and grammar usage; (independently and cooperatively) read and analyze all genres of literature; incorporate the writing process into informative, persuasive, and narrative writing; and compose a research paper using parenthetical documentation. This course is for college bound students who want an advanced academic challenge and are possibly interested in staying in the HON level or taking the AP English Literature and AP Composition courses in grades 11‐12. English 9 HON will provide a foundation for skills necessary to succeed in future AP classes and on AP exams. Students will take the Keystone Exam for Literature during this course.

***Prerequisite:*** *Summer reading is required for this course.*

**ENGL 01‐200, ENGL 01‐210 ENGLISH 10 GRADE 10 1 Credit**

English 10 will utilize the Study Sync curriculum to build foundations for students preparing for a technical, business, or four-year post‐secondary program following graduation and will build upon the foundations established in the English 9 class. Upon completion of this course, students will be able to demonstrate mastery of informative and persuasive essay writing, as well as producing a formal research paper by using MLA style. Vocabulary, communication, and research skills will give the student a solid foundation for post‐secondary education. Students will take the Keystone Exam for Literature during this course.

**ENGL 01‐220 ENGLISH 10 HON GRADE 10 1 Credit**

English 10 HON will utilize the Study Sync curriculum to extend the foundations established in English 9 HON. Upon completion of this class, students will be able to use the Internet for research to supplement traditional research methods; independently and cooperatively read current publications and literature with greater emphasis on analysis of the components of literature; expand knowledge of context vocabulary and grammar usage in preparation for college entrance exams; demonstrate proper academic etiquette; organize and deliver oral presentations. This course is for college bound students who are interested in staying in the HON level or taking the AP Literature and AP Composition courses in grades 11‐12. English 10 HON provides a foundation for skills necessary to succeed in future AP classes.

***Prerequisite:*** *Summer reading is required for this course.*

***Note:*** *Interest in a 4‐year college and at least a “B” average in English 9 HON are recommended.*

**ENGL 01‐300, ENGL 01‐310 ENGLISH 11 GRADE 11 1 Credit**

English 11 will utilize the Study Sync curriculum to build foundations for students preparing for a technical, business, or four-year post‐secondary program directly following graduation and will build upon the foundations established in the English 10 class. This course will promote mastery of reading and composition skills. Topics include, but are not limited to, the following: fiction and non‐fiction reading texts, composition, research, vocabulary development, and grammar. Students write a variety of informational and persuasive essays, develop research skills, read various pieces of literature, and apply an understanding of grammar and vocabulary to both written and oral communication. Vocabulary, communication, and research skills will give the student a solid foundation for post‐secondary education.

**ENGL 01‐320 ENGLISH 11 HON GRADE 11 1 Credit**

English 11 HON will utilize the Study Sync curriculum to extend the foundations established in English 10 HON class. The course emphasizes proficiency in skills necessary for college success. These include, but are not limited to, composition, research, reading, grammar, vocabulary development, and oral communications. Students write a variety of informational and persuasive essays, develop research skills, read various pieces of literature, and apply an understanding of grammar to both written and oral communication.

***Prerequisite:*** *Summer reading is required.*

***Note:*** *Interest in a 4‐year college and at least a “B” average in English 10 HON are recommended.*

**ENGL 01‐340 AP ENGLISH LANGUAGE GRADES 11‐12 1 Credit**

This is an advanced course in literature, vocabulary, grammar, and composition. Much of the work completed in this class occurs independently. Critical thinking, analysis, and evaluation skills are required. The course exposes students to prose written in a variety of periods, disciplines, and rhetorical contexts. It emphasizes the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes.

***Prerequisite:*** *Summer reading is required.*

***Note:*** *Admission may be restricted based on performance in previous English classes and teacher recommendation.*

**ENGL 01‐341 AP ENGLISH LITERATURE GRADES 11‐12 1 Credit**

This is an advanced course in literature, vocabulary, grammar, and composition. Much of the work done in this class is consists of independently studies. Critical thinking, analysis, and evaluation skills are required. This course enables students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing).

***Prerequisite:*** *Summer reading is required.*

***Note:*** *Admission may be restricted based on performance in previous English classes and teacher recommendation.*

**ENGL 01‐400, ENGL 01‐410 ENGLISH 12 GRADE 12 1 Credit**

English 12 will build foundations for students preparing for a technical, business, or four-year post‐secondary program directly following graduation and will build upon the foundations established in the English 11 class. This course concludes the sequence of academic English skills with a review of items in grammar, literature, and composition. Critical reading skills will be applied to a variety of literary forms. Vocabulary, communication, and research skills will give the student a solid foundation for post‐secondary education.

**ENGL 01‐420 ENGLISH 12 HON GRADE 12 1 Credit**

This course is for the student who will be attending a traditional college program upon graduation. It is a semester course with a literature base. In addition, study skills, critical thinking skills, and time management builds an essential framework for the course. While including work on vocabulary development and mastery of grammar and usage, the course aims for the development of a clear, precise style of writing, preparing the student for college level work.

***Note:*** *Summer reading is required.*

***Note:*** *Interest in a 4‐year college and at least a “B” average in English 11 HON are recommended.*

**MATHEMATICS DEPARTMENT**

**MATH 02-099 PRINCIPLES OF ALGEBRA AND GEOMETRY GRADE 9 1 Credit**

This course introduces fundamental concepts in algebra and geometry. Students will learn to solve algebraic equations, work with polynomials and functions, and understand geometric shapes, angles, and properties. Emphasis is placed on problem-solving, logical thinking, and real-world applications, providing a solid foundation for future math courses.

**MATH 02-000, 02-118 ALGEBRA I GRADE 9 2 Credits**

Algebra I focuses on the concepts of Algebra and will provide the tools and skills required by the Algebra I Keystone Exam. Topics to be covered include a review of middle school math, which includes the tools of algebra (order of operations, signed numbers), functions, and their graphs, solving equations including one‐step, two‐step, and multi‐step equations, solving inequalities, graphing and writing linear equations, systems of equations and inequalities, quadratic equations and functions, right triangles and radical expressions, polynomials and rational expressions. Upon completion of this course, students will be ready for geometry and Algebra II. Students will take the Keystone Exam for Algebra I during this course.

**MATH 02‐115 ALGEBRA II GRADES 10-12 1 Credit**

This course is designed to prepare students for math courses that they might experience in a college environment. A good background in Algebra I is a necessity. Extensive work will be performed and assessed in the fields of linear and quadratic equations, both on solutions and graphing.

***Prerequisite:*** *Successful completion of Algebra I*

**MATH 02‐130 ALGEBRA I HON GRADE 9 1 Credit**

Algebra I HON teaches a student to write and solve equations and inequalities. Practical applications are presented through word problems. Problems are solved using functions, linear equations, polynomials, and simultaneous equations. Students will take the Keystone Exam for Algebra I during this course.

**MATH 02‐125 ALGEBRA II HON GRADES 9‐10 1 Credit**

Topics in this class will include a review of linear functions, systems of equations in two and three variables, factoring, exponents and radicals, quadratic and polynomial functions, variation and proportion, exponential and logarithmic functions, and matrices. This is an accelerated class and students will be expected to meet high expectations.

***Prerequisite:*** *Algebra I HON or teacher recommendation.*

**MATH 02‐200, MATH 02‐210 GEOMETRY GRADES 10‐11 1 Credit**

This course focuses on basic geometric figures, measuring angles, special angles, parallel lines, perpendicular lines, angles with transversals, congruent triangles, properties of polygons and quadrilaterals, reasoning, and proofs. Students will learn two column deductive proofs.

***Prerequisite:*** *Successful completion of Algebra I*

**MATH 02-206, MATH 02-216 INTEGRATED STATISTICS GRADE 10 1 Credit**

This course is designed to help students succeed on the Algebra I Keystone Exam. It is the remediation course, required by the state of Pennsylvania, for those students who did not score “Proficient” or “Advanced” on the Algebra I Keystone Exam. This course will review Algebra I concepts and concentrate on individualizing instruction for students’ weak areas. Students will utilize various online testing programs to augment math skills. The students will take the Keystone Exam during this course. Students will also receive instruction on the basic functions of statistics.

***Prerequisite:*** *Algebra I or Algebra I HON and a score of Basic or Below Basic on the Algebra I Keystone Exam*

**MATH 02‐220 GEOMETRY HON GRADES 10‐11 1 Credit**

Topics in this class will include lines, planes, triangles, polygons, circles, solid figures, similarity, and trigonometry of right triangles. Students will work extensively with two column deductive proofs enabling them to gain the skills needed to think logically learning to approach problems "step by step.” Theorems, corollaries, and postulates are used daily in proofs and applications. Students will prove theorems and corollaries. This is an accelerated class and students will meet high expectations.

***Prerequisite:*** *An “A” or “B” in Algebra I HON and/or teacher recommendation.*

**MATH 02‐325 STATISTICS HON GRADES 11‐12 1 Credit**

This course in statistics will prepare students for an introductory, college level class and will introduce various techniques utilized to analyze real life data and solve real life problems. It will also give the students the tools to utilize data in their careers after college.

**MATH 02‐350 PRE-CALCULUS HON GRADES 10‐12 1 Credit**

This class will prepare students for the Calculus HON and/or Calculus AP courses. Students will finalize trigonometric concepts building from the Algebra II/Trigonometry HON course as well as introduce basic concepts from the Calculus discipline.

***Prerequisite:*** *Geometry HON and Algebra II/Trigonometry HON with at least a “C”, and/or teacher recommendation.*

**MATH 02‐RMU2070 CALCULUS w/ ANALYTIC GEOMETRY I GRADES 11‐12 1 Credit**

Topics covered include limits, continuity, derivatives, rules for derivation, applications, & related rates; **4 RMU Credits**

optimization techniques for extrema including Rolle's and mean value theorems; first and second derivative tests; curve sketching; differentials and indefinite integrals; Riemann Sums; integration techniques, and the Fundamental Theorem of Calculus.

***Prerequisites:*** Must have the ability to qualify for Dual Enrollment according to WASD Policy 124

**SCIENCE DEPARTMENT**

**SCI 03‐115 EARTH AND THE ENVIRONMENT GRADE 9 1 Credit**

In this course students will learn to approach science through evidence and the scientific method. Through observations and analysis of relationships and patterns, students will explain phenomena, develop models, and make predictions. Students will evaluate how a change to one component affects the entire system. Students will learn how the natural and designed worlds are interrelated and how technology can be beneficial or detrimental.

**SCI 03‐212 MEDICAL STUDIES GRADES 10‐12 1 Credit**

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

**SCI 03‐215 BIOLOGY GRADE 10 1 Credit**

This course will explore the concepts necessary for understanding living organisms. Topics include basic biological principles, chemical basis of life, evolution, ecology, cell growth and reproduction, homeostasis, and transport. bioenergetics, chemical basis of life, patterns of inheritance, biotechnologies, DNA, RNA, and protein synthesis. Students will actively research and discuss current science, technology, and societal issues. Students will take the Keystone Exam for Biology during this course.

***Prerequisite:*** *Earth and the Environment*

**SCI 03‐221 CHEMISTRY HON GRADES 10‐12 1 Credit**

This course covers chemistry concepts such as matter and measurements, the atom, periodic law, chemical bonding and shapes, chemical formulas, chemical reactions, stoichiometry, organic chemistry, and gas laws. Students will be expected to use mathematical problem‐solving, critical thinking and communication skills in student‐directed laboratory and classroom experiences. Open ended and inquiry-based laboratory experiments are an integral part of this curriculum along with the development of formal lab reports. Students will use higher level thinking when presented with both abstract and concrete concepts.

***Prerequisite:*** *A “C” or better in Biology HON or an “A” in Earth and the Environment*

**SCI 03‐235 BIOLOGY HON GRADE 9 1 Credit**

This course will explore the concepts necessary for understanding living organisms. Course topics covered in a depth appropriate for the advanced student. Topics include bioenergetics, chemical basis of life, patterns of inheritance, biotechnologies, DNA, RNA, and protein synthesis. Students will actively research and discuss current science, technology, and societal issues. Students will take the Keystone Exam for Biology during this course.

***Prerequisite:*** *Proficient or Advanced on Grade 8 Science PSSA and teacher recommendation*

**SCI 03‐310 PHYSICAL SCIENCE GRADES 11‐12 1 Credit**

This is a course designed to allow students to explore the basic concepts of physical science. Students will be introduced to the history and nature of science. The course includes the study of fundamental concepts of physics, chemistry, and astronomy. Students will be encouraged to explore the relationship between science and everyday life.

**SCI 03-313 AGRICULTURAL SCIENCE GRADES 10-12 1 Credit**

Agricultural Science is a practical, inquiry-based course designed to build skills and immerse students in modern agricultural practices. Topics include but are not limited to forestry, air, water, and soil quality, wildlife management, aquaculture, crop sciences, small animal care, dairy and livestock management, food science, sustainable farming practices, genetic engineering, and a host of other concepts. Students entering this course will be involved in a variety of hands-on learning activities.

***Prerequisite****:* *Students must have completed Biology and passed the Keystone or taken the Bio-Chemistry course.*

**SCI 03‐322 FORENSIC SCIENCE HON GRADES 11‐12 1 Credit**

This is a hands‐on scientific inquiry course designed to familiarize students with real crime scene analysis. Topics include law, evidence, preservation, documentation, fingerprints, hair, fibers, drugs, toxicology, trace evidence, blood, DNA, human remains, soil analysis, glass, and handwriting analysis. This course is focused on laboratory experimentation and logical reasoning. Students need to have a basic level of laboratory skills to enter this class. A simulated crime scene is presented as the final exam through an experimental analysis of evidence.

***Prerequisite:*** *A “C” or better Biology HON or a “B” or better in Biology*

**SCI 03‐330 ANATOMY & PHYSIOLOGY HON GRADES 11‐12 1 Credit**

Anatomy and Physiology studies the structure and function of the human body. Special emphasis is given to the inter‐relationships of human organs, systems, and processes. The students will be to research literature, conduct laboratory activities, and complete dissections. Emphasis will be placed on current biomedical, ethical, and societal issues. This course is to be equivalent to a college level course and includes dissection.

***Prerequisites:*** *Biology or Biology HON, Medical Studies*

**SCI 03‐342 AP PHYSICS GRADES 11‐12 1 Credit**

Physics AP is designed to provide a systematic introduction to the main principles of physics and emphasize problem‐solving without calculus. Course includes mechanics, electricity and magnetics, modern physics, waves and optics, kinetic theory, thermodynamics.

***Prerequisites:*** *A “B” or better in Biology HON and teacher recommendation*

**SCI 03‐343 AP CHEMISTRY GRADES 11‐12 1 Credit**

This course is to advance the student’s knowledge of chemistry. Concepts include bonding, states of matter, quantum numbers, thermochemistry, solutions, reaction kinetics, equilibrium, acids and bases, oxidation/reduction reactions, electrochemistry, nuclear chemistry, spontaneity/free energy/ entropy, and organic chemistry. The class will utilize intense hands‐on laboratory practices for further development of scientific inquiry skills.

***Prerequisites:*** *A “B” or better in Biology HON and teacher recommendation*

**SCI 03-RMU1310 PRINCIPLES OF BIOLOGY GRADES 11-12 1 SHS Credit**

This course is being offered in collaboration with Robert Morris University and students who **4 RMU Credits**

successfully complete the course will have the option to receive up to 4 college credits (1 credit lab).

The class is part of our Dual Enrollment course offerings. Students are introduced to the basic concepts underlying the life sciences. Topics covered in the course include, but are not limited to, scientific problem solving, cellular structure and function, membrane transport, cellular respiration, cellular reproduction, genetics, and DNA structure and function.

***Prerequisites:*** Must have the ability to qualify for Dual Enrollment according to WASD Policy 124

**SCI 03-RMU1160 ENVIRONMENTAL SCIENCE GRADES 11-12 1 SHS Credit**

The course is a first course in the study of environment science. The course is a study of **3 RMU Credits** interrelationships that equips students with the necessary information to understand the complex arena of environmental concerns, problems, and alternative courses of action. Questions of human populations and their interaction with the environment, as well as basic ecological principles, environmental ethics, resource use, and conservation are addressed. This course concludes with alternatives we might use to build a society capable of living on Earth with less harmful impacts. Principles of scientific inquiry are integrated throughout the course.

***Prerequisites:*** Must have the ability to qualify for Dual Enrollment according to WASD Policy 124

**SOCIAL STUDIES DEPARTMENT**

**SOCS 04‐100, 04-110 US AND THE WORLD GRADE 9 1 Credit**

This course is a study of the social, economic, military, political, and cultural history of the United States and the world from 1870 to the present. The ability to use computers, work co‐operatively in groups, and exhibit library research techniques will be necessary for group discussions, group activities, oral and written reports, and evaluations.

**SOCS 04‐120 US AND THE WORLD HON GRADE 9 1 Credit**

This course is a study of the social, economic, military, political, and cultural history of the United States and the world from 1870 to the present. The ability to use computers, work co‐operatively in groups, and exhibit library research techniques will be necessary for group discussions, group activities, oral and written reports, and evaluations. There will also be research projects and extensive outside reading and writing.

**SOCS 04‐210 WORLD CULTURES GRADE 10 1 Credit**

Students will explore five major regions of the world studying different cultures, geography, economic systems, political systems, and contemporary history. Each region is examined in terms of its significance and relationship with the U.S.

**SOCS 04‐211 CRIMINAL JUSTICE GRADES 9‐12 1 Credit**

This course is to focus directly on the crime picture in America and the three traditional elements of the criminal justice system: police, courts, and corrections. Reviews crime in America today, suggesting possible causes, and showing how policies for dealing with crime have evolved. Students will develop competencies regarding the philosophy of the U.S. justice system, recognizing the fundamental guarantees of due process, exploring potential crime problems.

**SOCS 04‐220 WORLD CULTURES HON GRADE 10 1 Credit**

Students will explore five major regions of the world studying different cultures, geography, economic systems, political systems, and contemporary history. Each of these regions is also studied in terms of their significance and relationship with the United States. The material will be covered at an accelerated pace with more depth and detail. In addition, independent reading of literary sources beyond the text will be explored and a research paper will be written.

**SOCS 04‐310, 04-000 GOVERNMENT GRADE 12 1 Credit**

Students will study political institutions and relationships between citizens and government at local, state, and national levels. Course will include the role, origins, and branches of government, individual rights, and fundamental freedoms. Students will examine the Constitution’s effect on our political and cultural climate, the role of public opinion, interest groups, and political parties. Current political issues and international relations will be discussed and analyzed.

**SOCS 04‐311 PSYCHOLOGY GRADES 11‐12 1 Credit**

Psychology is the study of mental processes and human behavior. The goal of this class is to help students to understand how the mind works, how to improve their own learning processes, and how to relate well to other people. Some topics covered will be learning and cognitive behavior, how the mind and body affect behavior, psychological research methods, personality and individuality, adjustment and breakdown, coping with stress and conflict, and human relations. Activities include class discussions, cooperative learning, lectures, simulations, demonstrations, research projects, presentations, reports, reading from "Psychology Today", and videos.

**SOCS 04‐320 GOVERNMENT HON GRADE 12 1 Credit**

Students will define and analyze the US political system and its effectiveness in fulfilling the needs of the public. This course will include an analysis of the role of government, origins of the US government, the Constitution, the role of public opinion, interest groups, and political parties. Current political issues will be examined, analyzed, and comparisons will be made between different political and economic systems. International relations will be analyzed.

**SOCS 04‐341 AP PSYCHOLOGY GRADES 11‐12 1 Credit**

Psychology AP is a college level course. Students will prepare rigorously for the AP Psychology exam by analyzing the scientific study of human behavior and mental processes. Students will study the history of psychology as a science, prominent psychologists and their theories, motivation and emotion, memory, states of consciousness, research methods, learning principles and applications, human development from infancy through old age, theories of personality development, and psychological disorders. Students will interpret readings and real‐life case studies. Through critical writing, discussion research, and experimentation, students will relate psychological theories to current events and make assumptions about how psychology affects the world today.

**SOCS 04-350 CURRENT AFFAIRS GRADE 11 1 Credit**

Current Affairs is a research, discussion, and project-based course that will provide students with an opportunity to explore the broad and ever-changing arrays of social concerns and issues both at home and abroad. Students will participate in debates, group projects, presentations, and work with primary sources, news articles, and various forms of media to more fully understand the issues covered. The intention of this course is to add relevance to past and current studies as well as to promote global awareness and create an educated citizenry.

**SOCS 04-360 CURRENT AFFAIRS HON GRADE 11 1 Credit**

Current Affairs HON is a research, discussion, and project-based course that will provide students with an opportunity to explore the broad and ever-changing arrays of social concerns and issues both at home and abroad. Students will be expected to do research on various topics and thoroughly explore all sides of the issues. Students will participate in debates, group projects, presentations, and work with primary sources, news articles, and various forms of media to more fully understand the issues covered. The intention of this course is to add relevance to past and current studies as well as to promote global awareness and create an educated citizenry.

**SOCS 04-420 MEDALS AND MEDIA GRADES 9-12 1 CREDIT**

Students will make connections to the past and senior generations by developing an understanding of what individuals had to endure during major historical conflicts. Firsthand stories of Medal of Honor recipients will be reviewed. There are more than 100 recipients that have been interviewed and their stories recorded for history, to both enjoy and learn from. These interviews have been synthesized into eight-minute vignettes that tell the recipient’s individual story. This set of vignettes gives teachers and students, the opportunity to gain a greater appreciation for what the Medal of Honor is and what the recipients who wear it represent.

**SOCS 04-114 GROUP INTERACTION AND LEADERSHIP GRADES 9-12 1 Credit**

This course is designed to teach students how to be effective leaders through a focus on the basic foundational principles of leadership and group interactions and dynamics.  These include group interactions and processes, effective communication, leadership styles, organization and managerial skills, decision making, and citizenship.  These lessons in group interaction, dynamics, and leadership will be put into practice by creating and implementing a variety of student driven events and fundraisers intended to increase school spirit and enhance the overall student experience in the District.  Participants will work closely and in collaboration with other established student groups on campus.

**\*Application is required for this course**.

**SOCS 04-RMU1020 AMERICAN NATIONAL GOVERNMENT GRADES 11-12 1 SHS Credit**

This course is offered in collaboration with Robert Morris University and students who successfully **3 RMU Credits**

complete the course will have the option to receive 3 college credits. The class is part of our Dual Enrollment offerings and is a basic course in the structure, principles, and functions of American political institutions through which the people of the US govern themselves. The federal government is emphasized, and the course examines the following topics: The American Presidency, Congress, the Supreme Court, executive power, legislative power, civil liberties, elections, politics, voting theories, constitutional law, public opinion, ideology, social cleavages and forecasting elections.

***Prerequisites:*** Must have the ability to qualify for Dual Enrollment according to WASD Policy 124

**SOCS 04-RMU1010 PRINCIPLES OF SOCIOLOGY GRADES 11-12 .5 SHS Credits**

This course is a basic introduction to the field of sociology, which enables students to see and **3 RMU Credits** understand the social world and their place in it in new ways. Students will become familiar with basic sociological concepts and social institutions, explore different explanations for social phenomena, and learn about the methods sociologists use to answer questions about society.

***Prerequisites:*** Must have the ability to qualify for Dual Enrollment according to WASD Policy 124

**SOCS 04-RMU1100 UNITED STATES HISTROY I GRADES 11-12 .5 SHS Credits**

This course is a survey of the development of the United States from the colonial era, through **3 RMU Credits**  the establishment of the federal system, the growth of party politics, and the search for a national culture, to the emergence of a two-ocean republic. The course concludes with the study of the Civil War and the reconstruction of the Union.

***Prerequisites:*** Must have the ability to qualify for Dual Enrollment according to WASD Policy 124

**SOCS 04-RMU1200 UNITED STATES HISTORY II GRADES 11-12 .5 SHS Credits**

This course is an examination of the development of the United States from the end of **3 RMU Credits** reconstruction, 1877, to the present day. The course emphasizes the reform tradition, the triumph of industrialization, and the emergence of the United States as a world power.

***Prerequisites:*** Must have the ability to qualify for Dual Enrollment according to WASD Policy 124

**FINE & PERFORMING ARTS DEPARTMENT**

**ARTS 05‐110 ART I GRADES 9‐12 1 Credit**

Students will learn to see as an artist sees through a series of basic drawing assignments. After a firm foundation in the basics of drawing, student will learn colored pencil, graphic design, marker projects, tempera, and watercolor painting.

**ARTS 05‐210 ART II GRADES 9‐12 1 Credit**

This course builds upon the topics in Art I and focuses on drawing. In keeping with this attention on two‐dimensional work, students typically work with several media (such as pen‐ and‐ink, pencil, and chalk).

***Prerequisite:*** *Art I*

**ARTS 05‐211 ART III GRADES 10‐12 1 Credit**

This course builds upon the topics in Art II and focuses on drawing and painting. Students typically work with several media (such as pen‐and‐ink, pencil, chalk, watercolor, tempera, oils, and acrylic).

***Prerequisite:*** *Art II*

**ARTS 05‐212 ART IV GRADES 11‐12 1 Credit**

This course provides students with the knowledge and opportunity to explore an art form and to create individual works of art. Provides exploration of career opportunities in the art world. Covers the language, materials, and processes of a specific art form and the design elements and principles supporting a work of art. As students advance and become more adept, they are encouraged to develop their own artistic styles.

***Prerequisite:*** *Art III*

**ARTS 05‐340 AP STUDIO ART: 2D DESIGN GRADES 11‐12 1 Credit**

AP Studio Art demands significant commitment. Designed for students with a serious interest in art, AP Studio Art enables students to refine their skill and create artistic works. Courses emphasize quality of work, attention to and exploration of a particular visual interest, and breadth of experience in the formal, technical, and expressive aspects of drawing. In this course, students explore representation, abstraction, and experimentation with a variety of materials.

***Prerequisites:*** *Art I and Art II, III or IV*

**ARTS 05‐117 CONCERT BAND GRADES 9‐12 1 Credit**

Students are accepted by recommendation of the middle school band director or by audition. Concert band activities are held throughout the entire year and students shall expect out-of-school performances and/or rehearsals. Grading is based on both in-school and out-of-school attendance and performances. Students wanting to participate in PMEA Band Festivals should be active members of Concert Band.

**ARTS 05‐118 CHORUS GRADES 9‐12 1 Credit**

Any students who enjoy singing are welcome to join with the understanding that they will meet course requirements. All members are to attend all scheduled practices and concerts, both in school and away from school campus. Grading may be based on basic music theory tests, solo and ensemble singing, school attendance, and performance/rehearsal and class participation. Students wanting to participate in PMEA Choral Festivals should be an active choir member.

**FOREIGN LANGUAGE DEPARTMENT**

**LANG 06‐110 SPANISH I GRADES 9‐12 1 Credit**

This course is designed to give students a basic knowledge in the pronunciation of the language, a comprehension of grammatical constructions, the ability (in varying degrees) to express themselves in the language, and the ability to read the language with some degree of facility. Some instruction in the history and cultures of the Spanish‐speaking peoples is also given. Students are expected to participate in the class and to complete all work related to the class.

***Note:*** *Minimum of a “B” average in 8th grade language arts.*

**LANG 06‐120 SPANISH II GRADES 9‐12 1 Credit**

This course is an extension of the first level with intensive studies in grammatical construction, translations from Spanish to English and English to Spanish. Other readings in the language through supplementary books will be added as well as more emphasis on the cultures of the people. Some project work on a voluntary basis will be included.

***Note:*** *Minimum of a “B” average in Spanish I, or instructor’s approval.*

**LANG 06‐220 SPANISH III HON GRADES 10‐12 1 Credit**

In this course of the Spanish program, the student will continue to develop the listening, speaking, reading, and, writing skills essential to learning a second language. The pronunciation and intonation in speaking the language will be perfected to meet approval of a native Spanish speaker. The student will be able to understand a Spanish individual in informal conversations. Students will read supplementary readings, books, magazines, etc., by leading Spanish authors.

***Note:*** *Minimum of a “B” average in Spanish I and II, or instructor’s approval.*

**LANG 06‐230 SPANISH IV HON GRADES 10‐12 1 Credit**

Students continue their study of grammar, vocabulary, and culture, but they do so while exploring units in Spain’s history, culture, literature, film, and current events. Students read a variety of texts, including magazine articles, poetry, and a novel. Students attain proficiency in which they are able to sustain conversations in Spanish. Students are assessed based on written and oral tests, portfolios, compositions, conversations, and performance-based projects.

***Note:*** *Minimum of a “B” average in Spanish I, II, and III or instructor’s approval.*

**PHYSICAL, HEALTH, & SAFETY EDUCATION DEPARTMENT**

**HPE 08-110 PHYSICAL EDUCATION GRADES 9‐12 1 Credit**

This course stresses the importance of having good physical fitness. Individual physical fitness levels are evaluated regularly throughout the year. Each student will experience activities involving individual, team, and lifetime sports. The goal of the course is for each student to develop and maintain physical fitness and discover enjoyable physical activities that he/she will be able to incorporate into his/her lifestyle.

**HPE 08‐116 HEALTH GRADES 9-11 1 Credit**

Health includes units in human growth and development, mental health, human anatomy and physiology, physical fitness, nutrition, and the effects of and skills to avoid tobacco, alcohol, and substance use. This course is designed to emphasize the importance to teenagers that they are laying the foundation now for their future health. Important health matters such as self‐esteem, stress, anger management, family relationships, romantic relationships, tobacco, alcohol, and other drug related usage, handling emergencies, and the importance of choices, are discussed.

**HPE 08-510 PERSONAL WELLNESS GRADES 9‐12 1 Credit**

This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the fundamentals of strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

**AIR FORCE JUNIOR ROTC DEPARTMENT**

**ROTC 09-110 ROTC GRADES 9‐12 1 Credit**

The Air Force Junior Reserve Officer Training Corps course includes both aerospace studies and leadership/life skills education. In this course, leadership/life skills lessons cover the heritage and development of the Air Force, including its structure, operations, customs, and courtesies. Aerospace topics include the development, history, and impact of flight; aircraft and spacecraft; and the environment in which these crafts operate. This course has different components that vary depending on previous experience in the class, so it can be taken each year. Note: Cadets are expected to participate in recognition, community service events, color guard events, annual field trips, and the final field training exercise at the end of the year. Cadets must, at all times, maintain acceptable personal appearance and high academic standard; this includes wearing the Air Force JROTC uniform. Cadets must adhere to the dress & personal grooming standards that are outlined in Air Force Instruction 36-2903, *Dress and Personal Appearance of Air Force Personnel.*

**BUSINESS & COMPUTER SCIENCES DEPARTMENT**

**CSCI 10-140 AP COMPUTER SCIENCE PRINCIPLES GRADES 9-12 1 Credit**

This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. With a unique focus on creative problem solving and real-world applications, the AP Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity to create artifacts of personal value.

**CSCI 10-145 AP COMPUTER SCIENCE A GRADES 9-12 1 Credit**

This course teaches the basics of object-oriented programming with a focus on problem solving and algorithm development. Take this course and prepare to ace the AP Computer Science A test.

**CSCI 10‐213 MULTIMEDIA PRODUCTIONS GRADES 9‐12 1 Credit**

This course provides students the opportunity to create dynamic presentations that incorporate text, digital images, audio, and video. Students learn to use a combination of hardware and software to plan, design, create and deliver multimedia presentations through graphics, print and video. Students will produce multimedia presentations for real applications within the school district.

**CSCI 12-113** **ENTREPRENEURSHIP GRADES 9-12 1 Credit**

This course is designed to teach students how to make money in business. Students will learn the components of entrepreneurship creation, ownership, and developing a business plan. This course will also assist students to analyze, compose, create, and learn the advertising field and to incorporate this knowledge into their personal lives.

**CSCI 12-114 MARKETING GRADES 9‐12 1 Credit**

This course focuses on all aspects of marketing including economics, psychology, and sociology. Marketing is a multi-faceted, critical business function whose successful performance depends on the application of mathematics and English principles, the use of scientific problem solving, and the application of technology to marketing situations and problems. This course will help students learn the necessary skills, attitudes, and abilities needed for success in today’s workplace and is designed to introduce students to marketing functions and their applications and impact on business operations.

**CSCI 12-200, 12-000 PERSONAL FINANCE GRADE 10 1 Credit**

Personal Finance is a mandatory course for all tenth-grade students. This course will explore concepts related to financial responsibility and decision making, income and careers, spending and credit, saving and investing concepts.  Students will be prepared to enter adulthood with a solid background in personal financial literacy.

**INDUSTRIAL TECHNOLOGY DEPTARTMENT**

**TECH 17‐210 WOODWORKING I GRADES 9‐12 1 Credit**

This course will introduce students to studies utilizing wood, plastics, and composites. Classwork will include providing the student with experience in planning and designing products. Students will build as they learn to use the tools, machines, and techniques that are necessary to change these materials into usable products. Surface preparation and a variety of finishing methods are also studied. Student evaluation will be determined by unit tests, class participation, and accuracy of project construction.

**TECH 17‐310 WOODWORKING II GRADES 11‐12 1 Credit**

This course will review and build upon the skills of machine woodworking and will focus on increasing the students’ ability on wood working equipment as it relates to wood technology. Particular emphasis will be placed on cabinet and furniture making including woodworking joints and plastics technology as used in the woodworking industry. Students’ evaluations will be determined by class participation, utilization of time and materials, accuracy of project construction, and overall appearance.

***Prerequisite:*** *A “C” or better in Woodworking I*

**TECH 21-210 PRE-ENGINEERING GRADES 9‐12 1 Credit**

Pre-Engineering will introduce STEM (Science, Technology, Engineering, and Math) concepts at a high school level. Students will learn fundamental components of the engineering design process and then translate this knowledge into the design and creation of various STEM related projects. Students will also have the opportunity to work with the Autodesk Inventor program.

**FAMILY AND CONSUMER SCIENCES DEPARTMENT**

**FCS 22‐110 FOOD MANAGEMENT I GRADES 9‐12 1 Credit**

This course involves the study and preparation of foods and/or careers in the food service field. Exposure to various foods, cooking techniques, and the foods industry will be explored. Areas of study will include basic nutrition, safe handling of foods, sanitation concerns, food preparation, presentation, serving of foods, and budgetary concerns. These concepts will be presented through discussion, demonstration, experiments, cooking labs, and outside resources.

**FCS 22‐112 HOUSING AND INTERIOR DESIGN GRADES 9‐12 1 Credit**

This specialized course is to assist students in creating exterior and interior housing designs specific to their individual and environmental needs. The newest trends in housing will be looked at and decisions made regarding the selection of building supplies, furnishings, decorating and landscaping. Students will create projects using basic design principles.

**FCS 22‐210 FOOD MANAGEMENT II GRADES 10‐12 1 Credit**

Designed as a continuation of Food Management I, this course will offer more in‐depth and specific food service and training skills. Not only will students operate a faculty and staff restaurant serving lunches, but also many catering projects will be offered. Specific skills such as garnishing, plating, and management procedures will be practiced.

***Prerequisite:*** *Food Management I*

**FCS 22‐311 CHILD DEVELOPMENT GRADES 11‐12 1 Credit**

This course is for students planning for careers in the early childhood education field as elementary and early childhood teachers or childcare providers. Some of the major areas of child development include developmental characteristics (physical, intellectual, social, and emotional) from birth through age six, curriculum planning, selection of educational equipment, the values of play, children's literature and storytelling, classroom management and learning centers, nutrition and snacks, bulletin board displays, songs and games, types of early childhood programs, government policies and regulations for program operations, and career choices.



**ERIE COUNTY TECHNICAL SCHOOL**

**COURSE DESCRIPTIONS**

**ART AND DESIGN FOR BUSINESS GRADES 10‐12 4 Credits**

The Art and Design for Business program offers students the opportunity to develop skills in a variety of professional design-related careers in which the artist creates visual solutions to the specifications of a project. Concentration will be placed on learning skills, which integrate traditional illustrative, design, and photographic methods with computer and digital technology. Each focus of study will include exploration of specific career and work skills, as well as portfolio development related to that area. Students will also be given the tools to actively seek and determine scholarship opportunities, post-secondary schools to attend, and the selection of relevant career paths. Successful participation in the course will prepare the student for entry-level employment, or possible accelerated entry into a post-secondary design/art-related program.

**AUTOMOTIVE BODY REPAIR GRADES 10‐12 4 Credits**

This course presents current and future practices in the rapidly changing world of auto body repair. Projects and class work use the latest technologies, equipment, and shop practices. Prospective students should have good hand‐ eye coordination, manual dexterity, multi‐limb coordination, mechanical aptitude, skill with tools, physical strength, accuracy and the ability to work with minimal supervision. Graduates of the program would be eligible for jobs such as re‐conditioner, spray painter, auto body customizer, body and fender apprentice, glass installer, auto body repairer, auto parts service clerk, metal finisher.

**AUTOMOTIVE TECHNOLOGY GRADES 10‐12 4 Credits**

This program provides the theory and practical experience needed to diagnose and repair automotive systems. Students work towards their state inspection requirements for a class one license and have the opportunity to earn ASE certification. Students are also able to get their PA Enhanced Emission Inspector Certification. Students should have mechanical aptitude, manual dexterity, skill with tools, physical stamina, good hand‐eye coordination, physical strength, willingness to work in an uncomfortable environment and think logically. Employment opportunities include auto mechanic or small engine mechanic, parts supplier, front‐end or tune‐up mechanic, or state inspection mechanic.

**COMPUTER NETWORKING GRADES 10-12 4 Credits**

Instruction includes safety, networking, network terminology and protocols, network standards, local-area networks (LANS), wide-area networks (WANS), Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing and network standards. Design, install, and troubleshoot complex computer and audio/visual network systems. Build, upgrade, and repair computers and peripherals. Configure software security programs that protect computers and networks. Students must think logically; good speaking, reading, and writing skills, and the ability to pay attention to detail. You can become a Network Technician, Help Desk Assistant, or Assistant Network Administrator. Students prepare for further education, advanced certifications, and employment as an IT professional. Earn college credits and Network + Certification and OSHA 10-Hour Safety Training Certificate.

**COMPUTER PROGRAMMING GRADES 10‐12 4 Credits**

This program presents current practices in the ever-changing world of data processing. Studies include design and internal functions, operations, computer operation and programming, web design, data processing and systems design. Design programming solutions for business information challenges. Use a wide range of unique software development languages to manipulate and present data. Write and edit source code and applets in interactive web-based applications such as HTML and Java. You should have the ability to think logically; good speaking, reading, and writing skills, and the ability to pay attention to detail. You can be a Computer Consultant, Computer Applications Specialist, Web Page Designer, or Programmer. You will be prepared for college in software development or Management Information Systems. Earn college credits and industry certification in Oracle and/or CareerSafe Safety Awareness.

**CONSTRUCTION TRADES GRADES 10‐12 4 Credits**

This program prepares students to enter the building trades industry with marketable skills. This encompasses all phases of residential construction. The student will gain knowledge of basic building materials, blueprint reading, brick and block laying, rough framing, door, and window installation, drywall hanging and finishing, stair construction, roofing and siding, finish trim applications, and basic principles of wiring. Prospective students should have mechanical aptitude, coordination, stamina, physical strength, manual dexterity, mechanical dexterity, and no fear of heights. Some areas of employment include carpenter’s apprentice, block, bricklayer, or building supply sales.

**COSMETOLOGY GRADES 10‐12 4 Credits**

Cosmetology is an art and a science involving the study of the skin, hair, and nails. The Cosmetology program provides each student with the knowledge and skills required to become a licensed cosmetologist. The license requires 1250 hours of instruction. Prospective students should possess creative and artistic aptitude; enjoy working with people, physical stamina, flexibility, patience, and good attitude. Some employment options include salon receptionist, hair stylist, manicurist, or esthetician.

**CULINARY, BAKING, & PASTRY ARTS GRADES 10‐12 4 Credits**

The culinary arts program assists the student who is interested in the fast‐paced and growing food services industry. The program offers a comprehensive presentation of basic principles and techniques necessary to obtain an entry‐level position in the food service industry or prepare for continued training and education. Prospective students should enjoy working with people and be able to work well under pressure, have physical stamina and coordination, good organizational skills and basic math and reading ability. Some areas of employment include fast order cook, waiter/waitress, baker, or cake decorator.

**DRAFTING & DESIGN ENGINEERING GRADES 10‐12 4 Credits**

Drafting careers are changing rapidly as computer technology replaces traditional procedures and functions. The Drafting & design course instructs students in industry standards and prepares students to step into the workplace or it gives them an important edge, if choosing to further their education in this field. Drafting, mechanical drafting and CAD involve making precise, instrument‐aided drawings that show how to construct machines, buildings, and infrastructures. Prospective students should possess the following characteristics: creative mind and good imagination, logical thinking, basic math skills, accuracy, and artistic ability. Some areas of employment are architectural draftsperson, technical illustrator, electronic draftsperson, mechanical detailer, and CAD Tech.

**EARLY CHILD EDUCATION GRADES 10‐12 4 Credits**

The Child Care program provides the student with the necessary skills for entry‐level positions in the childcare field, with an emphasis on the preschool environment. Prospective students should enjoy children and have a pleasant personality, even temperament, patience, and good communication skills, particularly spelling and grammar. Some areas of employment include preschool aide, childcare aid, or assistant group supervisor.

**ELECTRICAL ENGINEERING TECHNOLOGY GRADES 10‐12 4 Credits**

Design and install commercial and residential electrical wiring for power control systems from rough in to finish.

Turn engineering diagrams into efficient hydraulic and pneumatic operating systems. Troubleshoot analog and digital circuits. You can be an Electrician’s Helper/Apprentice, Electrical Production / Maintenance Worker, Electrical Supply Sales, Hydraulics/Pneumatics Technician, Production/Maintenance Technician, or Electrical Motor Repair. You will prepare for employment with an electrical contractor, apprenticeship, and further education.

**EMERGENCY & PROTECTIVE SERVICES GRADES 10‐12 4 Credits**

Emergency and Protective Services will train students in the areas of safety, security, firefighting, law enforcement, and emergency response. Students in this program will engage in practical applications and exciting hands-on training within the lab and through field experiences with local agencies. The need for certified professionals in this field is growing and students will have the opportunity to earn national, state, and local certifications.

**FACILITY MAINTENANCE TECHNOLOGY GRADES 10‐12 4 Credits**

This field offers several trades in one for the student interested in becoming a skilled craftsperson. Course content includes shop safety, proper use of hand and power tools, basic construction, plumbing, painting, electricity, hydraulics, welding, basic machining, motor control, & HVAC. Students should have physical stamina, mechanical aptitude, responsibility, manual dexterity, coordination, and patience. Average to above average math and reading skills are required. Some employment opportunities include electrician, plumber, maintenance mechanic, and assembler.

**GRAPHIC MEDIA & DESIGN GRADES 10‐12 4 Credits**

This program introduces students to theoretical aspects as well as hands‐on experiences using computers, darkroom equipment, and printing presses. Students acquire skills in job planning, design and layout, copy preparation, proofing, platemaking, offset press operation, bindery and finishing. Students should possess the following characteristics: creative mind, good typing skills, good background in English and spelling, strong mechanical skills, good attention to detail, organized and neat. Some areas of employment include graphic designer, offset press operator, and web design.

**HEALTH ASSISTANT GRADES 10‐12 4 Credits**

The Health Assistant program is ideal for students considering a career in the health and medical field. This program introduces students to various career opportunities that exist in health care. It prepares the student to enter the health care system as a competent assistant to the health care professional. Students should have good communication skills, neatness, cleanliness, manual dexterity, good professional appearance, the ability to maintain confidentiality and the ability to lift 50 pounds. Areas of employment include home health aide, medical receptionist, or personal care aide.

**HOSPITALITY & TOURISM GRADES 10‐12 4 Credits**

Students will learn about the structure of the lodging industry focusing on ownership, organization, and service strategies. Students will participate in supervised internships with a worksite mentor. Major instructional units in the curriculum include an overview of lodging management, the front office, housekeeping, leadership and management, marketing and sales, and food and beverage service. Prospective students should enjoy working with the public; have patience and good people skills. They should be willing to perform a variety of tasks and be able to work well under pressure. Good organizational skills are important, and the students should be self‐starters, dependable and professional. Entry‐level positions include banquet server, room attendant, front desk agent, or housekeeper.

**METAL FABRICATION TECHNOLOGY GRADES 10‐12 4 Credits**

This is a comprehensive program designed to give students entry‐level skills in the field of metal fabrication. Areas of study include the techniques and fundamentals of pattern development, fabrication, design, proper use of hand and power tools, SMAW (arc welding), acetylene cutting, Plasma cutting, GMAW (mig), GTAW (tig), and FCAW (Flux‐core). Prospective students need manual dexterity, mechanical aptitude, physical stamina, and basic math skills. Some areas of employment include welder, structural steel worker, or production line worker.

**PRECISION MACHINING TECHNOLOGY GRADES 10‐12 4 Credits**

Students trained in this program develop the necessary skills to be entry‐level machinists. They also have the opportunity to earn NIMS machining and metal working certifications. Prospective students should possess above‐ average math skills, good work attitudes, mechanical aptitude, eye‐hand coordination, and the patience to work neatly and accurately. The challenged and motivated student should consider this program as a basis for manufacturing and process knowledge for college engineering programs. Some employment areas include machine operator, toolmaker apprentice, CNC operator, or machinist trainee.

**SPORTS THERAPY & EXERCISE SCIENCE GRADES 10-12 4 Credits**

Sports therapy and related rehabilitation programs help people of all ages live active lives. You can choose a huge variety of careers in rehabilitative care. You will learn assessment, treatment, and injury prevention skills. After graduating from the Sports Therapy & Exercise Science major, you will be prepared to be a physical therapy aide, fitness trainer, rehabilitation aide, or to enter a variety of other areas of rehabilitative care.