# **Upper Dauphin Area High School**

**Program of Studies** 

2024-25

HIGH DIET DEFEN **UPPER DAUPHIN AREA** HIGH SCHOOL'S MISSION IS TO EMPOWER STUDENTS TO **USE CRITICAL AND CREATIVE THINKING IN ORDER TO PURSUE EXCELLENCE AND A LOVE** OF LEARNING AND TO **BECOME PRODUCTIVE** CITIZENS.

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# NONDISCRIMINATION POLICY

The Upper Dauphin Area School District is an equal opportunity education institution and will not discriminate in its educational programs, activities, or employment practices on the basis of race, color, national origin, sex, age, religion, ancestry, disability, union membership or other legally protected classification. Announcement of this policy is in accordance with state and federal laws, including Title VI, Title IX, Section 504 and the Americans with Disabilities Act.

For information regarding 1) civil rights, 2) grievance procedures, 3) service, activities and facilities that are accessible to and useable by disabled persons, or 4) employee or participant complaints of harassment or discrimination, contact Jared Shade, The Section 504 Compliance Office, 5668 State Route 209, Lykens, PA 17048. For Title IX (Sex Equity) issues please contact Amie Savidge (717-362-6547) (Title IX Coordinator) for information at the same address.

Federal Drug-Free Workplace Act requires that our workplace be totally free of illegal use of drugs and requires that we issue the following statement: No one is allowed to use, make, sell, distribute or have in his/her possession and illegal drugs. Any violation of the Act will lead to severe disciplinary action, which will normally include dismissal.

# **GRADUATION REQUIREMENTS AND GRADE PLACEMENT**

In order to be eligible for graduation from Upper Dauphin Area High School a student must have successfully passed twenty-five

(25) credits in grades nine through twelve which may include the following:

| English- 4 Credits   | Math- 4 Credits  | Science- 3 Credits  | Social Studies- 4<br>Credits  | Health & Physical<br>Education- 2.5 Credits |
|--|--|---|---|---|
| English I /Honors English<br>I- 1 Credit                                     | Algebra IA/ Algebra 1/<br>Honors Algebra II-1<br>Credit  | Intro to Chem5<br>Credit/Intro to Plant,<br>Animal and Soil<br>Science5 Credit/Honors<br>Biology with Lab-1.5<br>Credits  | World History/Honors<br>World History- 1 Credit   | 9 PE/9 Health- 1 Credit                     |
| English II/Honors English<br>II- 1 Credit                                    | Algebra IB/ Academic<br>Algebra II/ Honors<br>Geometry/Math for the<br>Trades -1 Credit                            | Biology-1 Credit/Honors<br>Biology with Lab-1.5<br>Credits<br>Crop & Soil<br>Science/Animal<br>Science5 Credit  | American History<br>I/Honors American<br>History I- 1 Credit<br>Intro to Economics5<br>Credit | 10 PE/10 Health- 1 Credit                   |
| English III/Honors English<br>III- 1 Credit                                  | Geometry/ Honors<br>Precalculus-1 Credit/  | College Prep Chemistry & Lab- 1.5 Credits/ Environmental Science- 1 Credit/Earth Science- 1 Credit/Anatomy & Physiology- 1 Credit  Intro to Health Careers/ Basics of Medical Terminology5 Credit | American History II/AP<br>US History/CP Principles<br>of Economics-1 Credit                   | 11 Wellness/Healthy<br>Living5 Credit       |
| English IV/AP English/Business English/Penn College Honors English- 1 Credit | Consumer Math/ Personal Finance/ Statistics / HU MATH 120 College Algebra / HU MATH 220 & AP Calculus AB -1 Credit |   | Personal Finance/Humanities- 1 Credit  Local History. Freedom/Sociology Psychology5 Credit    |   |

**Electives-7.5 Credits** 

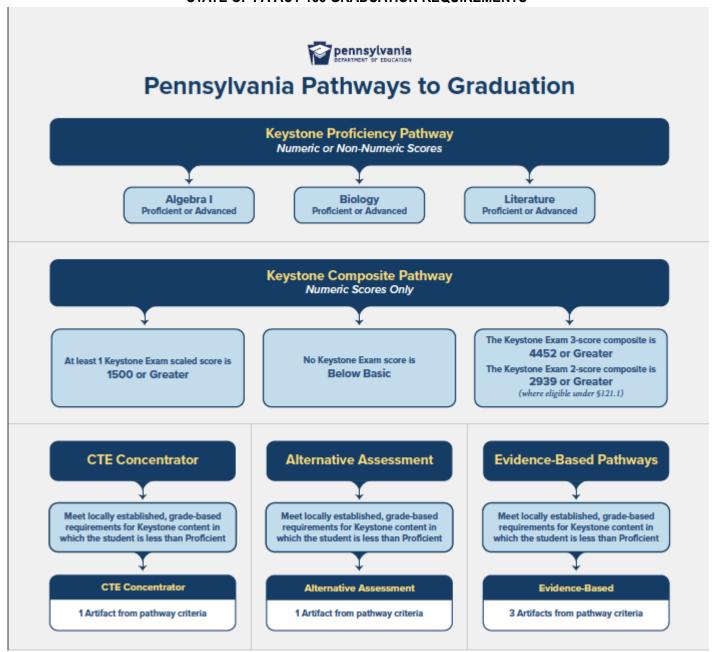
The placement of a student in a particular grade is based upon the following minimum credit requirements:

| PROMOTION:  | CRITERIA                      |
|-------------|-------------------------------|
| To Grade 9  | Promotion from grade 8        |
| To Grade 10 | Passing 5 graduation credits  |
| To Grade 11 | Passing 11 graduation credits |
| To Grade 12 | Passing 17 graduation Credits |

# **KEYSTONE EXAMS**

The Keystone Exams are end-of-course assessments designed to measure proficiency in the subject areas of Algebra I, Literature, and Biology. Students are required to take each of the Keystone exams. There are four established performance levels which include Advanced, Proficient, Basic, and Below Basic. The scores determine the school's rating on the School Performance Profile website. Students must meet one of the ACT 158 Pathways to meet the state graduation requirements. (See the chart).

# STATE OF PA ACT 158 GRADUATION REQUIREMENTS



# **GRADE POINT AVERAGE**

A student's Grade Point Average is determined by a student's cumulative average of all courses taken in grades 9 through 12.

The mechanics of calculating grade point average involve multiplying each course's numerical points (see below) by its credit value (1 credit, ½ credit, or ¼ credit) and dividing the sum of all the <u>quality points</u> by the sum of all <u>credits attempted</u>.

In order to challenge our students, a select number of AP, Honors, and Dual Enrollment courses will be designated for an alternative system of grade point average calculations. Specifically, courses designated "AP", "Honors" or "Dual Enrollment" will use the following grade equivalents when determining a student's grade point average.

\*Please Note: A grade lower than a 'B-' (85%) will not be weighted.

| Letter Grade  | Percentage | Regular Course | Dual Enrollment/<br>Honors Course | AP Course |
|---|------------|----------------|-----------------------------------|-----------|
| A+  | 99 – 100   | 4.00           | 4.25                              | 4.50      |
| Α   | 95 – 98    | 4.00           | 4.25                              | 4.50      |
| A-  | 93 – 94    | 3.67           | 3.92                              | 4.17      |
| B+  | 91 – 92    | 3.33           | 3.58                              | 3.83      |
| В   | 87 – 90    | 3.00           | 3.25                              | 3.50      |
| B-  | 85 – 86    | 2.67           | 2.92                              | 3.17      |
| C+  | 83 – 84    | 2.33           | 2.33                              | 2.33      |
| С   | 77 – 82    | 2.00           | 2.00                              | 2.00      |
| C-  | 75 – 76    | 1.67           | 1.67                              | 1.67      |
| D+  | 73 – 74    | 1.33           | 1.33                              | 1.33      |
| D   | 67 – 72    | 1.00           | 1.00                              | 1.00      |
| D-  | 65 – 66    | 0.67           | 0.67                              | 0.67      |
| F   | 0 – 64     | 0.00           | 0.00                              | 0.00      |
| *I – used when a<br>student has not<br>completed work | 0.00       | 0.00           | 0.00                              | 0.00      |

<sup>\*</sup>Incomplete grades must be finalized no later than the middle of the following marking period.

# **CLASS RANK**

Class rank is calculated using total quality points, which is determined by multiplying GPA by credits earned.

# **Career Pathways**

The goal of the Upper Dauphin Area High School is to help students prepare and launch themselves into their chosen post-secondary plans. Regardless of whether a student plans to enter the workforce or military, or pursue post-secondary training or college, we want students to understand and be prepared for all options.

The Pathways Guide is designed around the Career Clusters and Pathways published by the Pennsylvania Department of Education.

| Arts & Communication  Audio & Visual Technology & Film (CTE)  Journalism & Broadcasting (CTE)  Performing Arts   | Human Services  • Education & Training   |
|--|--|
| Business, Finance & Information Technology  Business & Administration  Information Technology  Engineering & Industrial Technology  Architecture & Construction (CTE)  Manufacturing | Science & Health  Agricultural Science focus on Animal Science (CTE)  Agricultural Science focus on Natural Resource Management (CTE)  Agricultural Science focus on Plant Systems (CTE)  Agricultural Science focus on Power, Structural, and Technical Systems (CTE)  Health Science |

# **Arts & Communication Career Cluster**

| Pathway: Audio & Visual Technology & Film (CTE*)  |   |   |  |   |  |
|---|---|---|--|---|--|
| 9th Grade   | 10th Grade  | 11th Grade  | 12th Grade   | Early Post Secondary<br>Offerings/<br>Certifications  |  |
| Computer Applications-<br>Graphic and Technology<br>Design*  Professional Business<br>Communication | Digital Media I- Video and Photography*  Video Broadcasting I*  Yearbook* | Digital Media II- Video<br>and Photography*<br>Video Broadcasting I or<br>II* | Video Broadcasting III*  Diversified Occupations I | Penn College Introduction<br>to Web Page<br>Development*  Penn College Introduction<br>to Gaming and<br>Simulation* |  |

Broadcast, sound, and video technicians set up, operate, and maintain the electrical equipment for media programs.<sup>1</sup>

The median annual salary for audio and video technicians was \$53,960 in 2022. The job growth rate within the Audio and Visual Technician field is expected to be 2% for the foreseeable future. <sup>1</sup>

| Pathway: Journalism and   | Pathway: Journalism and Broadcasting (CTE*)                      |                         |                                      |  |  |  |
|---|--|-------------------------|--------------------------------------|--|--|--|
| 9th Grade   | 10th Grade   | 11th Grade              | 12th Grade                           | Early Post Secondary<br>Offerings/<br>Certifications |  |  |
| Digital Media I- Video and Photography*  Video Broadcasting I*  Yearbook*  Creative Writing  Professional Business Communication  Computer Applications-Graphic & Technology Design  Computer Applications II – Word Processing/Presentation/ Spreadsheet | Digital Media II- Video and Photography*  Video Broadcasting II* | Video Broadcasting III* | AP English Diversified Occupations I | Penn College Honors<br>English                       |  |  |

News analysts, reporters, and journalists keep the public updated about current events and noteworthy information. <sup>2</sup>

The median annual salary for news analysts, reporters, and journalists was \$58,500 in 2022. The job growth rate within the Audio and Visual Technician field is expected to be -3% for the foreseeable future.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup>https://www.bls.gov/ooh/media-and-communication/broadcast-and-sound-engineering-technicians.htm

<sup>&</sup>lt;sup>2</sup>https://www.bls.gov/ooh/media-and-communication/reporters-correspondents-and-broadcast-news-analysts.htm

# **Arts & Communication Career Cluster**

| Pathway: Performing Arts               |                             |                                  |                           |  |  |
|--|-----------------------------|----------------------------------|---------------------------|--|--|
| 9th Grade                              | 10th Grade                  | 11th Grade                       | 12th Grade                | Early Post Secondary<br>Offerings/<br>Certifications |  |
| Choir Ensemble                         | Video Broadcasting II       | Honors Humanities 100            | Honors Humanities 101     |  |  |
| Piano/Keyboard<br>Technique            | Foundations of Music Theory | Honors Waves, Sounds, and Optics | Advanced Music Study      |  |  |
| ·                                      | Theory                      | ·                                | Diversified Occupations I |  |  |
| Concert Band                           |                             | Honors Advanced Music Theory     |                           |  |  |
| Instrumental<br>Musicianship           |                             | Indexy                           |                           |  |  |
| Broadway Musical<br>Productions        |                             |                                  |                           |  |  |
| Video Broadcasting I                   |                             |                                  |                           |  |  |
| Professional Business<br>Communication |                             |                                  |                           |  |  |

Musicians and singers play instruments or sing for live audiences and in recording studios.<sup>3</sup>

Other careers in the performing arts pathway include:

- In the field of music technology audio technicians, music video producers, recording engineers, mixers, sound engineers, sound technicians, stage managers.
- In the field of medicine music therapy (using music to help people improve their physical, emotional, mental, or social help)
- In the field of music business artist and talent managers, media promoters, marketing booking agents, product managers, business managers, and more in the fields of live music, radio, television, motion-picture industries.

The median hourly salary for musicians and singers was \$39.14 per hour in 2022. The job growth rate within the Musician and Singing field is expected to be 1% for the foreseeable future.<sup>3</sup>

<sup>3</sup>https://www.bls.gov/ooh/entertainment-and-sports/musicians-and-singers.htm

**Business, Finance & Information Technology Career Cluster** 

| Pathway: Business and Administration |                                    |   |                           |   |  |
|--------------------------------------|------------------------------------|---|---------------------------|---|--|
| 9th Grade                            | 10th Grade                         | 11th Grade                                | 12th Grade                | Early Post Secondary<br>Offerings/<br>Certifications    |  |
| Computer Applications I              | Intro to Economics                 | Accounting II                             | Consumer Mathematics      | HACC CIS 105-<br>Introduction to Computer               |  |
| Computer Applications II             | Accounting I                       | College Prep Principles of Microeconomics | Business English          | Applications  |  |
| Professional Business                | Principles of Marketing            |   | Personal Finance          |   |  |
| Communication                        |                                    | College Prep Principles of                | 01 " "                    | Penn College BIM120-                                    |  |
|                                      | Sports Entertainment and Marketing | Macroeconomics                            | Statistics                | Social Media in Business & Society                      |  |
| Consumer Strategies                  | Markoting                          | Spanish III                               | Honors Spanish IV         |   |  |
| -                                    | Guidance Intern                    |   | ·                         | Penn College MGT105-                                    |  |
| Spanish I                            | On aniah II                        |   | Diversified Occupations I | Introduction to Business                                |  |
|                                      | Spanish II                         |   |                           | Lackawanna College<br>Psych 105: Intro to<br>Psychology |  |
|                                      |                                    |   |                           | Lackawanna College Soc<br>105: Intro to Sociology       |  |

Workers in Business and Financial Occupations are involved in day-to-day activities of running a business or with matters related to money.<sup>4</sup>

The median annual wage for this group was \$76,850in 2022. The job growth rate within the Business and Financial field is expected to be 8% for the foreseeable future.<sup>4</sup>

<sup>&</sup>lt;sup>4</sup>https://www.bls.gov/ooh/business-and-financial/home.htm

**Business, Finance & Information Technology Career Cluster** 

| Pathway: information Technology                              |   |                  |                           |  |  |
|--|---|------------------|---------------------------|--|--|
| 9th Grade  | 10th Grade  | 11th Grade       | 12th Grade                | Early Post Secondary<br>Offerings/<br>Certifications   |  |
| Computer Applications II Professional Business Communication | Computer Applications-Graphic & Technology Design | Student Helpdesk | Diversified Occupations I | HACC CIS 105- Introduction to Computer Applications  Penn College BMW- 150 Introduction to Web Page Development  Penn College BMW- 160 Introduction to Programming  Penn College Introduction to Gaming & Simulation  IBM: Technical Support Basics for Everyone (Certification) |  |

Computer and information technology workers create or support computer applications, systems, and networks.<sup>5</sup>

The median annual wage for this group was \$100,530 in 2022. The job growth rate within the Information Technology field is expected to be 10% for the foreseeable future.<sup>5</sup>

**Engineering & Industrial Technology Career Cluster** 

| Pathway: Architecture &                 | Pathway: Architecture & Construction (CTE*) |                          |                                |  |  |  |
|---|---|--------------------------|--------------------------------|--|--|--|
| 9th Grade                               | 10th Grade                                  | 11th Grade               | 12th Grade                     | Early Post Secondary<br>Offerings/<br>Certifications |  |  |
| Basic Cabinetmaking                     | Intermediate Cabinet making                 | Math for the Trades      | Building Trades II or III*     | OSHA 10 Hour General<br>Safety Card                  |  |  |
| Professional Business                   |   | Advanced Cabinetmaking   | and/or                         |  |  |  |
| Communication                           | Building Trades I*                          |                          |                                | Local Home Builders                                  |  |  |
|   |   | Honors Waves, Sound, &   | Cooperative Education          | Association Credential                               |  |  |
| Engineering Drafting and<br>Modeling I  | Architectural Drafting                      | Optics                   | Class                          |  |  |  |
| •                                       |   | Building Trades I or II* | Diversified Occupations I      |  |  |  |
| Engineering Drafting and<br>Modeling II |   |                          | and Diversified Occupations II |  |  |  |

Construction and Extraction Workers use a variety of resources to build and repair roads, homes, and other structures.<sup>6</sup>

The median annual wage was \$50,570 in 2022. The job growth rate within the Construction and Extraction field is expected to be 3% for the foreseeable future.<sup>6</sup>

| Pathway: Manufacturing                            |                 |                                      |   |  |  |
|---|-----------------|--------------------------------------|---|--|--|
| 9th Grade   | 10th Grade      | 11th Grade                           | 12th Grade  | Early Post Secondary<br>Offerings/<br>Certifications |  |
| Basic Welding Professional Business Communication | Level I Welding | Math for the Trades Level II Welding | Level III Welding  Diversified Occupations I and Diversified Occupations II |  |  |

Welders, cutters, solderers, and brazers use hand-held or remotely controlled equipment to join, repair, or cut metal parts and products.<sup>7</sup>

The median annual wage was \$47,540 in 2022. The job growth rate within the Welding field is expected to be 1% for the foreseeable future.<sup>7</sup>

<sup>&</sup>lt;sup>6</sup>https://www.bls.gov/ooh/construction-and-extraction/home.htm

<sup>&</sup>lt;sup>7</sup>https://www.bls.gov/ooh/production/welders-cutters-solderers-and-brazers.htm

# **Human Services Career Cluster**

| Pathway: Education and Training        |                                     |  |   |  |  |  |  |  |  |
|--|-------------------------------------|--|---|--|--|--|--|--|--|
| 9th Grade                              | 10th Grade                          | 11th Grade                             | 12th Grade                                  | Early Post Secondary<br>Offerings/<br>Certifications |  |  |  |  |  |
| Spanish I                              | Spanish II                          | Spanish III                            | Honors Spanish IV                           | Lackawanna College<br>Psych 105: Intro to            |  |  |  |  |  |
| Library Assistant                      | Guidance Intern                     | Foundations in Education               | Statistics                                  | Psychology   |  |  |  |  |  |
| Professional Business<br>Communication | Human & Social Services 1A (online) | Child Development  Careers in Criminal | Elementary & Middle<br>Education Internship | Lackawanna College Soc<br>105: Intro to Sociology    |  |  |  |  |  |
| Computer Applications I                |                                     | Justice(online)                        | Foundations in Education or                 | Penn College Honors<br>English                       |  |  |  |  |  |
| Computer Applications II               |                                     | American Sign Language (online)        | Diversified Occupations I                   |  |  |  |  |  |  |

Education, Training, and Library workers share information through instruction and distribution.8

The median annual wage was \$57,490 in 2022. The job growth rate within the Education, Training, and Library field is expected to be 4% for the foreseeable future.8

| Pathway: Agriculture Science focus on Animal Science (CTE*)                                  |   |  |                                       |  |  |  |  |  |
|--|---|--|---------------------------------------|--|--|--|--|--|
| 9th Grade  | 10th Grade  | 11th Grade   | 12th Grade                            | Early Post Secondary<br>Offerings/<br>Certifications |  |  |  |  |
| Intro to Plant, Animal and Soil Science * Honors Biology Professional Business Communication | Animal Science* Forestry Wildlife Management Crop and Soil Science * Anatomy/Physiology | Dairy, Livestock and Equine Production and Management*  Natural Resource Management*  Introduction to Health Careers  AP Biology & Lab | Supervised Agriculture<br>Experience* |  |  |  |  |  |

Veterinarians care for the health of animals and work to protect public health.9

The median annual wage was \$103,260 in 2022. The job growth rate within the Veterinary Science field is expected to be 20% for the foreseeable future.<sup>9</sup>

<sup>&</sup>lt;sup>9</sup>https://www.bls.gov/ooh/healthcare/veterinarians.htm

| Pathway: Agriculture Science focus on Natural Resource Management (CTE*)                       |   |  |                                       |                                   |  |  |  |  |
|--|---|--|---------------------------------------|-----------------------------------|--|--|--|--|
| 9th Grade  | 10th Grade  | 11th Grade   | 12th Grade                            | Early Post Secondary<br>Offerings |  |  |  |  |
| Intro to Plant, Animal and Soil Science *  Honors Biology  Professional Business Communication | Forestry Wildlife Management Crop and Soil Science * Earth Science Greenhouse Production and Management* Advanced Horticulture* | Natural Resource Management* Environmental Science Earth Science | Supervised Agriculture<br>Experience* |                                   |  |  |  |  |

Conservation scientists and foresters manage the overall land quality of forests, parks, rangelands, and other natural resources.<sup>10</sup>

The median annual wage was \$64,420 in 2022. The job growth rate within the Conservation Science field is expected to be 4% for the foreseeable future.<sup>10</sup>

| Pathway: Agriculture Science focus on Plant Systems (CTE*) |                                   |  |                                    |  |  |  |  |  |  |
|--|-----------------------------------|--|------------------------------------|--|--|--|--|--|--|
| 9th Grade  | 10th Grade                        | 11th Grade                               | 12th Grade                         | Early Post Secondary<br>Offerings/<br>Certifications |  |  |  |  |  |
| Intro to Plant, Animal and Soil Science *                  | Crop and Soil Science* Greenhouse | Advanced Horticulture*  Natural Resource | Supervised Agriculture Experience* |  |  |  |  |  |  |
| Honors Biology   | Production and Management*        | Management*                              | or                                 |  |  |  |  |  |  |
| Professional Business<br>Communication                     | Environmental Science             |  | Diversified<br>Occupations I       |  |  |  |  |  |  |

Environmental scientists and specialists use their knowledge of the natural sciences to protect the environment and human health.

The median annual wage was \$76,480 in 2022. The job growth rate within the Soil and Plant Science field is expected to be 6% for the foreseeable future.<sup>11</sup>

<sup>&</sup>lt;sup>10</sup>https://www.bls.gov/ooh/life-physical-and-social-science/conservation-scientists.htm

<sup>&</sup>lt;sup>11</sup>https://www.bls.gov/ooh/life-physical-and-social-science/environmental-scientists-and-specialists.htm

| Pathway: Agriculture Science focus on Power, Structural, and Technical Systems (CTE*)   |   |  |   |   |  |  |  |  |
|---|---|--|---|---|--|--|--|--|
| 9th Grade   | 10th Grade  | 11th Grade   | 12th Grade  | Early Post Secondary<br>Offerings/<br>Certifications  |  |  |  |  |
| Intro to Agricultural Mechanics and Technology*  Basic Welding*  Engineering Drafting and Modeling I  Professional Business Communication | Advanced Ag Mechanics*  Small Gas Engine*  Engineering Drafting and Modeling II  College Prep Physics | Ag Engineering Technology*  College Prep Physics Architectural Drafting Honors Electricity & Magnetism  Honors Waves, Sound, & Optics  Honors Advanced Chemistry  AP Biology & Lab | Supervised Agriculture Experience*  or  Diversified Occupations I | Math 120 (Harrisburg University) College Algebra  Math 220 (Harrisburg University)/AP Calculus II  Penn College CHM100: Fundamentals of Chemistry |  |  |  |  |

Agricultural engineers solve problems concerning power supplies, machine efficiency, the use of structures and facilities, pollution and environmental issues, and the storage and processing of agricultural products.<sup>12</sup>

The median annual wage was \$83,260 in 2022. The job growth rate within the Architectural Engineering field is expected to be 6% for the foreseeable future.<sup>12</sup>

<sup>&</sup>lt;sup>12</sup>https://www.bls.gov/ooh/architecture-and-engineering/agricultural-engineers.htm

| Pathway: Health Science   |                      |                              |                               |  |  |  |  |  |
|---------------------------|----------------------|------------------------------|-------------------------------|--|--|--|--|--|
| 9th Grade                 | 10th Grade           | 11th Grade                   | 12th Grade                    | Early Post Secondary<br>Offerings/<br>Certifications |  |  |  |  |
| Spanish I                 | Spanish II           | Spanish III                  | Honors Spanish IV             | Math 220(Harrisburg<br>University/AP Calculus II     |  |  |  |  |
| Strength and Conditioning | Anatomy & Physiology | Child Development            | Statistics                    | Introduction to Health                               |  |  |  |  |
| Professional Business     |                      | Honors Advanced<br>Chemistry | Diversified Occupations I and | Careers  |  |  |  |  |
| Communication             |                      |                              | Diversified Occupations II    | Penn College MTR104:                                 |  |  |  |  |
|                           |                      | Chemistry Lab Assistant      |                               | Basics of Medical Terminology                        |  |  |  |  |
|                           |                      | AP Biology & Lab             |                               |  |  |  |  |  |
|                           |                      |                              |                               | Penn College CHM100:<br>Fundamentals of<br>Chemistry |  |  |  |  |

Workers in Healthcare help clients maintain and improve wellbeing. 13

The median annual wage was \$77,760 in 2022. The job growth rate within the Healthcare occupation field is expected to be 12% for the foreseeable future.<sup>13</sup>

<sup>&</sup>lt;sup>13</sup>https://www.bls.gov/ooh/healthcare/home.htm

# **COURSE OFFERINGS**

# ART

| Course Number | Course Name | Grade | Duration | Credits | Weighted Value |
|---------------|-------------|-------|----------|---------|----------------|
| 7830          | Studio Art  | 9-12  | A/B      | .5      | 1.0            |
| 7831          |             |       | Semester | .5      |                |
| 7832          |             |       | Year     | 1       |                |

# **Studio Art** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT)

The first year in the Studio Art course is divided into two general units, Basic Drawing and Color Theory, designed to afford the student a basic background foundation for more advanced art courses available in the following years. Studio Art is a workshop comprising numerous areas of study in various media. Students are encouraged to take several years of art.

# **BUSINESS**

| Course Number | Course Name  | Grade | Duration | Credits | Weighted Value | Prerequisite |
|---------------|--|-------|----------|---------|----------------|--------------|
| 4511          | Accounting 1   | 10-12 | Year     | 1       | 1.0            | N/A          |
| 4513          | Accounting 2   | 11-12 | Year     | 1       | 1.0            | 4511         |
| 4414          | Personal Finance                                       | 12    | Year     | 1       | 1.0            | N/A          |
| 4550          | Principles of<br>Marketing                             | 10-12 | Semester | .5      | 1.0            | N/A          |
| 4570          | Sports<br>Entertainment and<br>Marketing               | 10-12 | Semester | .5      | 1.0            | N/A          |
| 4585          | Professional Business Communications                   | 9-12  | Semester | .5      | 1.0            | N/A          |
| PC6105        | Penn College<br>MGT105:<br>Introduction to<br>Business | 10-12 | Semester | .5      | 1.06           | 2.0 GPA      |

# Accounting I

Accounting I provides an in-depth study of the conceptual framework of accounting as it relates to recording, reporting, and disclosing financial information on the Balance Sheet, Income Statement, and Cash Flow Statement. Emphasis is placed on the accounting procedures for measuring, recording, and reporting Assets

## Personal Finance

Using real-world situations, this course will give students the knowledge and general understanding of all key aspects of personal finances necessary to be successful now and throughout their adult lives.

Students will look at making reasoned and informed decisions about current and future financial goals.

# Sports Entertainment and Marketing (OFFERED 24-25)

Students will explore the intriguing world of sports and entertainment from the perspective of marketing. This is an introductory course which will help students develop a thorough understanding of the marketing concepts and theories that apply to sports and sporting events.

# Accounting II

A continuation of the in-depth study of financial accounting with a concentration on the liabilities and stockholder's equity accounts of the Balance Sheet. Other topics include financial statement analysis, error analysis, and accounting for income taxes, retirement benefits, and leases.

# Principles of Marketing (OFFERED 25-26)

Students explore the roles of business and marketing in the free enterprise system and global economy. You will study how the American economy operates and prepare to make decisions as consumers, wage earners, and citizens.

#### Professional Business Communications

This course is a hands-on course that will teach essential life skill lessons throughout the semester. Students will create presentations with various presentation tools; engage in a variety of public speeches, interviews, and interact in life-skill scenarios. Students will use a variety of digital tools to help build organizational skills leading to life after high school.

# Penn College MGT105: Introduction to Business

Introduction to a variety of business concepts and practices that impact all organizations, as well as the knowledge and skills needed to be successful in an organization. Topics include interpersonal communications, emotional intelligence, economics, accounting, and finance and investments. An integrative approach connects topics and provides context within organizational environments, relevance to current business situations, and advances across various fields of business. 3 Credits (3 Lecture - 0 Lab) Sophomore-Approved Course.

# **EDUCATION & TRAINING**

| <b>Course Number</b> | Course Name                                 | Grade | Duration       | Credits | Weighted Value | Prerequisite                         |
|----------------------|---|-------|----------------|---------|----------------|--------------------------------------|
| 9540                 | Elementary & Middle<br>Education Internship | 12    | Year           | 3       | 1.0            | 9550                                 |
| 9550                 | Foundations in Education                    | 11-12 | Year           | 1       | 1.0            | 9270 (see pg.22)<br>(or corequisite) |
| 9600/9601            | Library Assistant                           | 9-12  | Semester, Year | .5-1    | 1.0            | N/A                                  |
| 2390/2395            | Chemistry Lab Assistant                     | 10-12 | Semester, A/B  | .5      | 1.0            | 2330 (see pg. 27)                    |
| 9620/9625            | Guidance Intern                             | 10-12 | Semester, A/B  | .5      | 1.0            | N/A                                  |
| 2225                 | Careers in Criminal Justice                 | 10-12 | Semester       | .5      | 1.0            | N/A                                  |
| 2512                 | Human and Social Services                   | 10-12 | Semester       | .5      | 1.0            | N/A                                  |

#### Elementary & Middle Education Internship

Students intending to be an Elementary or Middle Education Intern in the elementary and middle school must do the following:

- Obtain and provide current clearances and be approved by the UDASD School Board as a volunteer.
- Sign a confidentiality agreement and maintain confidentiality at all times.
- Simultaneously enroll in the (9550) Foundations in Education course OR students who already completed and passed the Foundations in Education course must simultaneously enroll in Diversified Occupations I.

This daily internship will include, but not be limited to, the following experiences and responsibility:

- Assisting individual and small groups of children with a variety of academic and social/emotional tasks (e.g. assisting during learning centers, practicing letter/word rings, etc.)
- Assisting the teacher with teaching tasks (e.g. leading calendar time, providing input for lesson planning, grading, etc.)
- Gaining experience working with children with a variety of learning, behavioral and social/emotional needs.
- Maintain passing grades in all coursework at the high school.
- Consistently show good attendance and communicate with their mentor/supervisor if they are not able to attend.

#### Foundations in Education

This course is intended for upperclassmen considering careers in teaching or for those students with an interest in our educational system and its foundations. In this course we will examine the historical, social, philosophical, political, and cultural issues that shape what it means to be a teacher today. Students will demonstrate learning through classroom discussions, journal reflections, short writing assignments, and activities that examine personal beliefs and values, best practices in education, challenges, and current research. Experts in education will be invited to share their experiences with students throughout the course.

This course may be taken as an elective BUT it is required for seniors simultaneously enrolled in the Elementary & Middle Education Internship. If a senior Elementary & Middle Education Intern already completed and passed Foundations in Education, the intern will simultaneously enroll in Diversified Occupations I instead.

**Library Assistant** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT) Students in this course will learn skills associated with running a library: phone etiquette, customer service, materials circulation and reshelving, researching and reading new titles, and problem solving.

Guidance Intern (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT) Students will greet visitors to the counseling department and help with guidance correspondence. They will assist with making the guidance counseling suite a warm and welcoming place. Students interested should be kind, mature and proficient in using the Google suite of products. Because of the private information they may encounter, they will be asked to sign a confidentiality statement.

# **Chemistry Lab Assistant** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT)

The Lab Assistant will assist in the preparation of chemistry instructional lab materials, including chemical solutions, equipment, and supplies. The lab assistant will also assist in glassware washing, inventory control, safety data sheet management, general cleaning, and waste management. This course will advance your knowledge of the compatibility of chemicals when storing chemicals utilizing the Flinn Scientific Method and MSDS sheets, advance your skills in preparing solutions of various concentrations, and developing an inventory monitoring system for chemicals in the high school science department.

# **Human and Social Services OFFERED ONLINE**

Those working in the field of social services are dedicated to strengthening the economic and social well-being of others and helping them lead safe and independent lives. In Human and Social Services 1, you will explore the process of helping, body, mind, and family wellness, and how you can become a caring social service professional. If you are interested in an emotionally fulfilling and rewarding career and making a difference in the lives of others, social and human services may be the right field for you

#### Careers in Criminal Justice OFFERED ONLINE

Most of us have watched a sensationalized crime show at one time or another, but do we really know how things work behind those dreaded prison bars? Do we really understand all the many factors in our justice proceedings? The criminal justice system is a very complex field that requires many seriously dedicated people who are willing to pursue equal justice for all. The Careers in Criminal Justice course illuminates what those different career choices are and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order. Find out more about what really happens when the television show ends and reality begins.

# **FNGLISH**

Students are required to pass four credits of English to graduate from Upper Dauphin Area High School. The following courses meet graduation requirements for English:

- (0309)Academic English 1(NCAA Approved) /(0209)Honors English 1 (NCAA Approved)/(0709)Transitional English 9
- (0310)Academic English 2(NCAA Approved)/(0210)Honors English 2 (NCAA Approved)/(0710)Transitional English 10
- (0311)Academic English 3(NCAA Approved)/ (0111)Honors English 3 (NCAA Approved)/(0711)Transitional English 11
- (0312)Academic English 4(NCAA Approved)/(0412)AP English(NCAA Approved)(0112)/Business English/(PC0111)PC Honors English(NCAA Approved)/(0712)Transitional English 12

| Course Number | Course Name                    | Grade | Duration | Credits | Weighted Value | Prerequisite               |
|---------------|--------------------------------|-------|----------|---------|----------------|----------------------------|
| 0905          | Creative Writing               | 9-12  | Semester | .5      | 1.0            | N/A                        |
| 0906          | Creative Writing               | 9-12  | Year     | 1       | 1.0            | N/A                        |
| 0901          | Mythology                      | 10-12 | Semester | .5      | 1.0            | N/A                        |
| 6540          | Podcast Story Laboratory       | 11-12 | A/B      | .5      | 1.0            | N/A                        |
| 0113          | Thematic Capstone-<br>English  | 12    | Year     | 1       | 1.0            | N/A                        |
| 0112          | Business English               | 12    | Year     | 1       | 1.0            | N/A                        |
| PC0111        | Penn College Honors<br>English | 12    | Year     | 1       | 1.06           | 2.0 GPA, Placement<br>Exam |
| 0412          | AP English                     | 12    | Year     | 1       | 1.13           | N/A                        |

# Creative Writing (NCAA Approved)

(MAY BE TAKEN MULTIPLE TIMES FOR CREDIT)

This workshop course is designed to guide students in creative writing through exploration of various genres, with a focus on the writing process. The culmination of this course is a semester project – a long-term collection of work that the student has focused on creating. This course is an English elective, not a replacement for other required English classes.

#### **Business English**

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Reading and writing of business documents will be emphasized throughout the course. Students enrolled in Business English will develop and refine job-related communication skills in reading, writing, speaking, and listening, which are necessary to be successful in a business environment.

#### Thematic Capstone- English

Students who wish to engage in independent reading and related research are invited to propose projects and create a timeline including regularly scheduled review meetings with their instructor. Successful completion will include a portfolio of writing, a presentation, and celebration of their work during the course to a committee of the learner's and mentors' choosing.

Project proposals will be due for approval in the spring preceding the course.

#### AP English (NCAA Approved)

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. Students will complete all facets of Senior Career Project as a part of this course.

## Mythology (NCAA Approved)

This course is designed to enhance understanding of mythology and its continuing influence on our modern world. Students will study mythology from various cultures, including Greek, Roman, Norse, and possibly others. Participants examine how some themes and character types occur in myths of different cultures. Reading, individual projects/activities, and group work will be part of this class. This course is an English elective, not a replacement for other required English classes.

# Penn College Honors English (NCAA Approved)

The first semester of the course will be dual enrollment English Composition course work. Writing and revising 6-8 papers in various academic genres. The focus of the second semester will be British authors and their literary works. Background information on the authors and history of the English language will also be incorporated throughout this study. Focus will be heavy on writing and discussion.Both semesters will be fast-paced and require extensive reading, research and writing.

# **Podcast Story Laboratory**

Students will listen to a wide range of nonfiction and fiction podcasts spanning genres like journalism exposes, historical reenactments, memoir essays, sci-fi anthologies and more. Diverse podcast examples could include This American Life, Snap Judgement, S-Town, Welcome to Nightvale, Limetown, Serial and The Truth. Students will study elements of effective podcasts while collaborating to conceive, plan, write, record, edit and produce their very own podcast series.

The course aims to showcase the podcasting medium's artistic possibilities while providing transferable skills for interpreting messages and crafting impactful stories across various formats. Through creating podcasts, students will build valuable skills in research, writing, technology, marketing, and collaboration.

# **FAMILY & CONSUMER SCIENCE**

| Course<br>Number | Course Name                 | Grade | Duration | Credits | Weighted Value | Prerequisite |
|------------------|-----------------------------|-------|----------|---------|----------------|--------------|
| 9215             | Basic Cooking and Nutrition | 9-12  | Semester | .5      | 1.0            | N/A          |
| 9220             | Foods and You               | 10-12 | Semester | .5      | 1.0            | 9215         |
| 9240             | LIFE                        | 10-12 | Semester | .5      | 1.0            | N/A          |
| 9270             | Child<br>Development        | 11-12 | Year     | 1       | 1.0            | N/A          |
| 9416             | Consumer<br>Strategies      | 9     | Semester | .5      | 1.0            | N/A          |

# **Basic Cooking and Nutrition**

Basic Cooking and Nutrition is an elective course that allows students to explore sources of nutrients and the body's requirements throughout the lifecycle. They will learn basic kitchen management skills, understanding safety and sanitation as well as recipes and how they can be altered for utilization to meet daily needs. The students will examine the government's role in the food supply and safeguarding our food selection. The USDA Choose My Plate will be utilized to gain knowledge of food and nutrition. There will be extension activities that include food labs to gain experience cooking/baking food.

#### LIFE

Lifelong learning, Independence, Family and Economics is an elective course that gives students the opportunity to learn to manage the challenges of living and working. The course helps to prepare students for independence by examining the main elements of Family and Consumer Science. The students will explore careers and gain employment, as well as financial and resource management by investigating the necessities of life as consumers and family members. The students will discover effective solutions to issues significant in everyday life as they learn to balance family, work and community responsibilities throughout the lifecycle.

## Consumer Strategies

Consumer Strategies is a comprehensive Family and Consumer Science course with an examination of kitchen and nutrition basics, resource and financial management and balancing family, work and community responsibilities along with child care. The students will explore kitchen safety and sanitation, time management, finances with emphasis on maintaining accounts, consumerism, housing/interior design and child care.

## Foods and You

The focus of this course is to apply the knowledge gained in the Basic Cooking and Nutrition course to daily living through meal planning and making good consumer decisions. The students will examine how to enhance their food choices through the selection, planning, preparation and serving of meals. Students will be required to participate in food labs to gain experience cooking/baking.

# **Child Development**

Child Development is an elective course that allows students to gain an understanding of caring for children and aiding in their learning as their needs change physically, intellectually, socially and emotionally. The students will examine the responsibilities and changes involved in their lives when caring for themselves, as well as for a child. Students will analyze the theories of child development, financial needs of families, health and safety concerns for mothers and children during pregnancy, and children as they grow. They will also examine the balancing of daily responsibilities as individuals, family members and community members during this course. There is potential for students to gain experience with children at the elementary school with the Pre-K Counts program, Elementary Internship and/or Middle School Internship programs.

# INDUSTRIAL ARTS

| Course | Course Name                          | Grade | Duration | Credits | Weighted Value | Prerequisite |
|--------|--------------------------------------|-------|----------|---------|----------------|--------------|
| Number |                                      |       |          |         |                |              |
| 8011   | Basic Cabinetmaking                  | 9-12  | Semester | .5      | 1.0            | N/A          |
| 8311   | Intermediate<br>Cabinetmaking        | 10-12 | Year     | 1       | 1.0            | 8011         |
| 8411   | Advanced<br>Cabinetmaking            | 11-12 | Year     | 1       | 1.0            | 8311         |
| 9318   | Architectural Drafting               | 11-12 | Year     | 1       | 1.0            | 9340         |
| 9330   | Engineering Drafting and Modeling 1  | 9-12  | Semester | .5      | 1.0            | N/A          |
| 9340   | Engineering Drafting and Modeling II | 9-12  | Semester | .5      | 1.0            | 9330         |

# Basic Cabinetmaking

Students learn machine safety, as well as, the basics of cabinet construction such as drawers.. A shaker table will be constructed using basic cabinetmaking techniques. Materials fee will be charged.

# Advanced Cabinetmaking

Students expand upon previously gained knowledge and experience to design and build large complex cabinets utilizing all the above-mentioned features of modern cabinets.

Materials fee will be charged.

# **Architectural Drafting**

Students learn the basics of light construction principles and then apply their knowledge to design a house using AutoCAD. After the 2 dimensional drawings have been completed, the students then render the drawings to create 3 dimensional views of the house. A scale model of the house is built to provide a concrete, 3-dimensional product of the student's design.

# Intermediate Cabinetmaking

Students continue to learn more basic features of cabinets such as drawers and doors and trim. Students will construct a cabinet that meets course requirements. Materials fee will be charged.

# Engineering Drafting and Modeling I

Students will learn to incorporate all the basics skills of technical sketching, and drafting starting with line types progressing through 3-view drawings, isometric drawings, and detail drawings. Work will be completed on paper and on CAD programs.

# Engineering Drafting and Modeling II

Students will learn the intermediate skills of, drafting and basic parametric modeling, This includes the creation of parametric models and detailed drawings. Work will be completed on paper and on CAD programs.

# **MATHEMATICS**

Students are required to pass four credits of Mathematics to graduate from Upper Dauphin Area High School. The following courses are required for graduation:

| • ( | (1013)Algebra 1 ( | (NCAA Approved)/(1017/1019)Algebra  | 1A/1B (NCAA Approved) | /(1701/1705/1710/1715)Transitional Math               |
|-----|-------------------|-------------------------------------|-----------------------|---|
| • ( | (1013)Algebia i i | (INCAA Appioved)/(IOI//IOI3/Algebia |                       | //( 17 0 1/ 17 0 3/ 17 10/ 17 13 ) Halisilioliai Mali |

| Course Number | Course Name  | Grade | Duration | Credits | Weighted Value | Prerequisite |
|---------------|--|-------|----------|---------|----------------|--------------|
| 1014          | Geometry   | 9-11  | Year     | 1       | 1.0            | 1023         |
| 1021          | Statistics   | 11-12 | Year     | 1       | 1.0            | 1023 OR 1123 |
| 1023          | Academic Algebra II                                    | 9-10  | Year     | 1       | 1.0            | 1013         |
| 1024          | Precalculus  | 10-12 | Year     | 1       | 1.0            | 1014 & 1023  |
| 1114          | Honors Geometry  | 9-11  | Year     | 1       | 1.06           | 1013 OR 1123 |
| 1118          | Honors Calculus 1                                      | 11-12 | Year     | 1       | 1.06           | 1224         |
| 1123          | Honors Algebra II                                      | 9-10  | Year     | 1       | 1.06           | 1013         |
| 1224          | Honors Precalculus                                     | 10-12 | Year     | 1       | 1.06           | 1114 & 1123  |
| 1414          | Personal Finance                                       | 12    | Year     | 1       | 1.0            | N/A          |
| 4542          | Consumer<br>Mathematics                                | 12    | Year     | 1       | 1.0            | N/A          |
| 1066          | Mathematics for the<br>Trades                          | 10-12 | Year     | 1       | 1.0            | 1013         |
| HU1120        | Math 120 (Harrisburg<br>University) College<br>Algebra | 11-12 | Year     | 1       | 1.06           | 1024         |
| HU1220        | Math 220 (Harrisburg<br>University)/AP<br>Calculus II  | 11-12 | Year     | 1       | 1.13           | 1118         |

#### Geometry/Honors Geometry (NCAA Approved)

The Geometry course will emphasize the concepts of geometry that are required to meet PA Core standards. Topics include, but are not limited to, measurements, angles, triangles, polygons, circles, area, volume and transformations. A scientific calculator is required for this course. Honors Geometry is a more in-depth study of the same topics.

#### Statistics (NCAA Approved)

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. A scientific calculator is required and a graphing calculator will be provided for this course.

#### Academic Algebra II/Honors Algebra II (NCAA Approved)

This course is a continuation of fundamental algebraic concepts, with an emphasis on the study of functions. Topics include systems of linear equations and inequalities, quadratic functions, polynomials, radical and rational functions, and trigonometric functions. A scientific calculator is required for this course. Honors Algebra II is a more in-depth study of the same topics.

#### Precalculus/Honors Precalculus (NCAA Approved)

Precalculus extends topics of Algebra II and Geometry and introduces concepts of trigonometry through a graphing approach. Students can expect a rigorous pace and challenging material. A scientific calculator is required for this course. Honors Precalculus is a more in-depth study of the same topics.

## Honors Calculus I (NCAA Approved)

This course is designed for prospective mathematics majors, as well as those students whose primary interests are in engineering, physics, business or the life sciences. Topics include limits, derivatives and their application and techniques of integration and their application. A scientific calculator is required for this course.

#### Personal Finance

Using real-world situations, this course will give students the knowledge and general understanding of all key aspects of personal finances necessary to be successful now and throughout their adult lives.

Students will look at making reasoned and informed decisions about current and future financial goals.

#### Consumer Mathematics

This elective course covers basic math skills with and without a calculator. Topics include net and gross income, savings and checking accounts, cash and credit purchases, and insurance and investments.

# Mathematics for the Trades

Concepts are presented within the context of on-the-job applications.. Authentic applications give students examples that they are likely to encounter in future careers in the trades, specifically allied health, electrical trades, automotive trades, plumbing, construction, and more.

# Math 120 (Harrisburg University) College Algebra (NCAA Approved)

This course is intended for the college-bound student who desires to review algebraic, geometric, and trigonometric principles previously learned. Topics include properties of real numbers, problem-solving using equations and inequalities, algebraic functions, graphing, systems of equations and inequalities, polynomial functions and graphs, exponents and radicals, the binomial theorem, zeros of polynomials, inverse functions, exponential and logarithmic functions, trigonometry, and applications and graphs. A calculator is NOT PERMITTED for this course.

#### Math 220 (Harrisburg University)-AP Calculus II (NCAA Approved)

This course is intended for the accelerated mathematics student. It is designed for prospective college level STEM (Science, technology, engineering, math) interested students. This course will begin with the curriculum from the Harrisburg University Math 220 Calculus 1 syllabus. This will comprise roughly 50% of the year. Once the Math 220 content is completed additional topics will include, but are not limited to, advanced differentiation and integration techniques and applications. The use of a graphing calculator to solve complex calculus problems will also be incorporated. Students who take this course will have the option to take this course for college credit (3) and/or take the AP Calculus AB Exam or merely take it as UDA Calculus 2 without cost.

# **MUSIC**

| Course Number | Course Name                     | Grade | Duration | Credits | Weighted Value | Prerequisite           |
|---------------|---------------------------------|-------|----------|---------|----------------|------------------------|
| 7900          | Choir Ensemble                  | 9-12  | Year/AB  | .5      | 1.0            | N/A                    |
| 7902          | Concert Band                    | 9-12  | Year/AB  | .5      | 1.0            | N/A                    |
| 7909          | Instrumental<br>Musicianship    | 9-12  | Semester | .5      | 1.0            | MS Band, 7900, OR 7902 |
| 7916          | Foundations of Music<br>Theory  | 10-12 | Semester | .5      | 1.0            | 7900 OR 7902           |
| 7918          | Honors Advanced Music Theory    | 11-12 | Semester | .5      | 1.06           | 7916                   |
| 7920          | Piano/Keyboard<br>Technique     | 9-12  | Semester | .5      | 1.0            | N/A                    |
| 7950          | Advanced Music Study            | 11-12 | Semester | .5      | 1.0            | 7900 OR 7902           |
| 7980          | Music Appreciation              | 9-12  | Semester | .5      | 1.0            | N/A                    |
| 7990          | Broadway Musical<br>Productions | 9-12  | Semester | .5      | 1.0            | N/A                    |

# **Choir Ensemble** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT)

Choir Ensemble is open to all students who enjoy singing. Students will perform a variety of styles of music in mixed, women's, and men's choir settings. Concert attendance is mandatory. Basic knowledge of musical elements and solfege is beneficial, but not required.

# Instrumental Musicianship

Instrumental Musicianship is a hands-on learning experience designed to give students the chance to play all band (woodwind, brass, and percussion) instruments. Previous music instruction is beneficial but not required. Students will be expected to perform in solo and ensemble settings throughout the duration of the semester.

## Honors Advanced Music Theory

This is a continuation of skills acquired in the Foundations of Music Theory course. Advanced Music theory refines and expands the analytic skills needed to understand how music is put together. This is a suggested elective for students preparing for a career in music.

## **Music Appreciation**

This course is intended to expose students to the many facets of music and explore the role of music in students' individual lives. Units include, but are not limited to: World Music, Music as Identity, and the Evolution of Popular Music. These units will cover artists, styles and characteristics associated with the topic.

**Concert Band** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT) Concert Band allows students the opportunities to perform a variety of styles of music within various ensemble and solo settings. Students will be required to attend group or individual lessons as scheduled. Concert attendance, including graduation, is mandatory.

# Foundations of Music Theory

This course is designed to develop and expand music theory knowledge, aural, and listening skills that include but are not limited to:

- Reading, writing and identifying patterns in music.
- Ear training
- Rhythmic and melodic dictation.
- Roman numeral analysis of a composition.

# Piano/Keyboard Technique (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT)

Piano/Keyboard Technique is a hands-on learning experience designed to sequentially instruct students at all levels on skills specific to playing the piano. This course moves at a different pace for each student. This course may be taken one period per semester. Students are encouraged to take several semesters of piano to build and develop skills and musicianship.

# Advanced Music Study

This course is designed to help students prepare audition requirements for a university music program. We will concentrate on developing independent practice skills, preparing music for advanced levels of performance, listening to and learning from expert performers, and sight-reading. Students will prepare for weekly lessons and perform at a concert at the conclusion of the semester.

## **Broadway Musical Productions**

This course will explore the evolution of Broadway musicals from their origins in opera through today's hits. Students will explore functions of music and lyrics, character development, stage terminology, vocal and movement training, acting, and aspects of technical production including stage design, lighting design, sound reinforcement, costuming, and makeup.

# **SCIENCE**

(2800)Biology(NCAA APPROVED) or )(2930)Honors Biology (NCAA APPROVED) is required for graduation.

| Course Number | Course Name                       | Grade | Duration | Credits | Weighted Value | Prerequisite                                  |
|---------------|-----------------------------------|-------|----------|---------|----------------|---|
| 2116          | Honors Advanced<br>Chemistry      | 11-12 | Semester | .5      | 1.06           | 2330 and 1023(see page 24)<br>(co-requiisite) |
| 2125          | AP Biology and Lab                | 11-12 | Year     | 1.5     | 1.13           | 2800 and 2330                                 |
| 2200          | Introduction to Health<br>Careers | 10-12 | Year A/B | .5      | 1.0            | 2800 or 2510 (co-requisite)                   |
| 2220          | Introductory Chemistry            | 9     | Semester | .5      | 1              | N/A   |
| 2310          | Earth Science                     | 10-12 | Year     | 1       | 1.0            | N/A   |
| 2340          | College Prep Physics              | 10-12 | Year     | 1       | 1.0            | 1023 (see pg 24) (co-requisite)               |
| 2350          | Honors Electricity & Magnetism    | 11-12 | Semester | .5      | 1.06           | 1024 (see pg 24)                              |
| 2360          | Honors Waves, Sound, & Optics     | 11-12 | Semester | .5      | 1.06           | 1024 (see pg 24)                              |

#### Honors Advanced Chemistry(NCAA Approved)

This course is designed for students who plan to go to college to study any of the sciences, engineering, nursing, pre-medical studies or any similar field. The course will review some topics previously studied at a higher level of understanding as well as cover additional topics such as organic chemistry, nuclear chemistry, and oxidation-reduction reactions. There will be no additional laboratory period required for this course, but there will be laboratory activities incorporated into the course.

# Advanced Placement Biology & Lab (NCAA APPROVED)

The AP Biology course is designed to be the equivalent of a college introductory biology course. It is meant to prepare students for rigorous college coursework. The increased difficulty and faster pace is very challenging and requires a significant commitment in terms of time and effort. The course includes emphasis in inquiry-based investigations, with a quarter of the course dedicated to hands-on learning through college-level labs. Students in this class will have the opportunity to take the AP Biology Exam at the end of the year, which may enable them to satisfy their general education biology requirement for college. Financial aid may be available.

#### Introduction to Health Careers

Examination of health majors and careers, including an evaluation of personalities in relation to career interests and values needed for success and satisfaction in the health care professions. Topics include discussion of requirements, daily roles, employment opportunities, and projections for the future in each of the selected health care fields.

#### Introductory Chemistry (NCAA APPROVED)

This course is designed to give students an introduction to basic chemistry principles that are needed to understand concepts in biology. This course pairs with 8053 Intro to Animal, Plant & Soil Science and is a required course for freshmen not taking Honors Biology with Lab.

# Earth Science (NCAA APPROVED)

Earth Science is designed to give students a background in the following areas: rocks and minerals, weather, groundwater, running water, weathering and erosion, and the dynamic processes of plate tectonics (earthquakes, volcanoes, etc.). The study focuses on the connections between the earth's various systems. The class will emphasize hands-on experiences and the use of other educational tools.

# College Prep Physics (NCAA APPROVED)

The CP Physics course is primarily intended for those students who are bound for higher education with a STEM oriented major of study. This course will focus primarily on mechanics, and is intended to prepare you for a freshman level college physics course.

# Honors Electricity & Magnetism (NCAA APPROVED)

This course is intended for college bound students who are interested in pursuing a STEM field or anyone with an interest in E&M. It will cover topics in E&M such as Static Electricity, Electric Fields, Electric Potential Energy, Basic Electric Circuits, Magnetism, and Electromagnetism. This course is math intensive.

# Honors Waves, Sound & Optics (NCAA APPROVED)

This course is intended for college bound students who are interested in pursuing a STEM field or anyone with an interest in sound or optics. It will cover Properties of Waves, Properties of Sound, Properties of Light, Mirrors and Lenses, and Vision and Optical Instruments.

# SCIENCE DEPARTMENT OFFERINGS CONTINUED ON NEXT PAGE

#### SCIENCE

(2800)Biology(NCAA APPROVED) or (2930)Honors Biology (NCAA APPROVED) is required for graduation.

| Course Number | Course Name  | Grade | Duration | Credits | Weighted Value | Prerequisite                |
|---------------|--|-------|----------|---------|----------------|-----------------------------|
| 2510          | Anatomy & Physiology                                     | 10-12 | Year     | 1       | 1.0            | 2800 (Biology)              |
| 2530          | Astronomy  | 10-12 | Semester | .5      | 1.0            | N/A                         |
| 2560          | Environmental Science                                    | 10-12 | Semester | .5      | 1.0            | N/A                         |
| 8053          | Introduction to Plant,<br>Animal, and Soil Science       | 9-10  | Semester | .5      | 1.0            | N/A                         |
| PC2100        | Penn College CHM100:<br>Fundamentals of<br>Chemistry     | 10-12 | Year     | 1.5     | 1.06           | 1013 (see pg 24)<br>2.0 GPA |
| PC2104        | Penn College MTR104:<br>Basics of Medical<br>Terminology | 11-12 | Year A/B | .5      | 1.06           | 2510<br>2.0 GPA             |
| 2120          | Forensic Science and the Human Experience-Science        | 11-12 | Year A/B | .5      | 1.0            | N/A                         |
| 2335          | Physics for the Trades                                   | 9-12  | Year     | 1       | 1.0            | 1013                        |

# Anatomy & Physiology (NCAA APPROVED)

This class includes the subject areas of biology, chemistry, physics and wellness. The course explores the components of physiology, anatomy, disease, today's society and kinesiology – areas that comprise the human body as a whole. This course looks at the complex components of the body and shows how they work together to provide functioning and a total well-being. T

#### Astronomy (NCAA APPROVED)

Astronomy is designed to give students the basics of astronomy. The following topics will be studied: history of astronomy, history and formation of the universe and our solar system, constellations, the planets, the moon, and current events in astronomy. The class will emphasize hands-on and eyes-on experiences.

# Environmental Science (NCAA APPROVED)

Environmental Science is designed to give students a background in the environment and how humans interact with it. We will focus on the following topics: environmental history, human population, energy, pollution, invasive species, environmental policy, and environmental ethics.

#### Introduction to Animal, Plant Science, and Soil Science

This ½ credit course focuses on the scientific principles underlying the study of animals, plants, and soils in agricultural production and natural resource systems. FFA activities related to course units of instruction will be integrated into classroom activities. This course pairs with Introductory Chemistry and is a required course for freshmen not taking Honors Biology with Lab.

# Penn College CHM100: Fundamentals of Chemistry/College Prep Chemistry & Lab (NCAA APPROVED)

The emphasis is on the underlying structure of matter (atoms, lons, molecules) and how the structure determines properties. The course is designed to teach chemistry terminology and symbols, as well as develop analytical and critical thinking skills. The course is appropriate for college bound students and may count for a science requirement for non-science majors needing one term of chemistry or to satisfy a lab science requirement in college. It is appropriate for those who will major in science in preparation for a General Chemistry I (CHM111 at Penn College). No prior knowledge of chemistry is assumed, but some algebra skills are needed. The class may also be taken without college credits and count for 1.5 UDA science credits.

#### Penn College MTR104: Basics of Medical Terminology

Foundation for the use of the language of medicine, with emphasis on correct pronunciation and spelling, various word parts, abbreviations and symbols, and terms pertaining to body systems. Etiology, symptomatology, pathology, and diagnostic procedures for identifying various disease processes provide an increased understanding of medically related conditions and procedures.

#### Forensic Science and the Human Experience- Science

Students will explore forensic science and its intersections with psychology and sociology. This hands-on, interdisciplinary course will allow students to simulate forensic investigations while developing an understanding of the many factors that influence human behavior and lead to criminal activity. Students will get out of the classroom and into the lab as they employ critical thinking and the scientific process to evaluate criminal behavior. They will learn how forensic tools and knowledge about human beings as individuals and social creatures can aid investigations. This course offers an excellent opportunity to apply science while developing a deeper appreciation for the complexity of human nature. MUST BE TAKEN WITH THE SOCIAL STUDIES PORTION OF THE SAME COURSE.

# Physics for the Trades

Students will explore the laws of physics as they apply to the trades. This course provides a hands-on, real-world approach to understanding and utilizing fundamental physics concepts that are essential for success in various vocational fields.

# **SOCIAL STUDIES**

Students are required to pass four credits of Social Studies to graduate from Upper Dauphin Area High School. The following courses meet graduation requirements for Social Studies:

- Grade 9: (3010)Modern World History(NCAA Approved) /(3210)Honors Modern World History (NCAA Approved)
- Grade 10: (3026)American History I(NCAA Approved)(3227)Honors American History I (NCAA Approved)
- Grade 11: (3028)American History II(NCAA Approved)/ (3228)AP US History (NCAA Approved)

| Course Number | Course Name   | Grade | Duration | Credits | Weighted Value | Prerequisite             |
|---------------|---|-------|----------|---------|----------------|--------------------------|
| 3228          | AP United States History  | 11    | Year     | 1.0     | 1.13           | 3026 OR 3227             |
| 3042          | Intro to Economics  | 10-12 | Semester | 0.5     | 1              | N/A                      |
| 3045          | College Prep Principles of Economics                            | 10-12 | Year     | 1.0     | 1              | 1013 (See page 24)/3042I |
| 3050          | Freedom: Understanding the Nation                               | 11-12 | Semester | 0.5     | 1              | N/A                      |
| 3060          | Local History   | 10-12 | Semester | 0.5     | 1              | N/A                      |
| 2121          | Forensic Science and the<br>Human Experience- Social<br>Studies | 11-12 | Year A/B | .5      | 1              | N/A                      |

#### AP United States History (NCAA APPROVED)

This intensive junior-year course builds on the Honors American History I course. Content includes the history of the United States from the pre-Columbian Era, 1491 to the present in a manner that will prepare students for the Advanced Placement exam given in May of the junior year. All 9 periods of US history will be covered by either review of 10th Grade Honors American History I course and the presentation of new curriculum material. Students will use historical thinking skills to understand and analyze the causes and effects of major events, the trends/themes in major areas, and the significant historiographical controversies concerning each of the 9 periods of US History will be studied. Students will write answers to long essay questions, data based questions, and short answer questions. A writing assessment in AP format on every period is required. Required assignments include a summer project, historical setting, projects involving primary sources, writing and analysis, primary source readings

#### Intro to Economics (NCAA APPROVED)

Economics provides an understanding of fundamental economic concepts, demand & supply, the operation of the United States' economy and of current economic problems facing the nation. The majority of the course focuses on the fundamental economic concepts and microeconomics. Many concepts are applied in class through simulations and projects. Grading will be based on homework, quizzes, tests, and participation in class.

#### College Prep Principles of **Economics** (NCAA APPROVED)

Math Skills Required. The course is designed to prepare students for future college courses in economics.

Students will study basic economic concepts, microeconomics, and macroeconomics.

#### Freedom: Understanding the Nation (NCAA APPROVED)

Freedom: Understanding the Nation is geared toward those students with an interest in political science - the study of governments, public policies, political processes, and political behavior. In order for the United States to continue to succeed and be a leading voice for freedom and democracy in the world, it is essential for Americans to understand and participate in the government of this country. The government impacts the lives of all Americans, from providing services, to setting public policy, to establishing, interpreting, and enforcing laws.

#### Local History (NCAA APPROVED)

The Local History Class will increase the student's knowledge and appreciation of local history. Students will analyze the founding of local communities and townships in terms of the individuals, businesses, and industries which created them. A major requirement is the end of the semester "Bringing Local History Alive" presentation to the entire class which will need to be completed in order to earn credit for the course.

#### Forensic Science and the Human Experience-Social Studies

Students will explore forensic science and its intersections with psychology and sociology. This hands-on, interdisciplinary course will allow students to simulate forensic investigations while developing an understanding of the many factors that influence human behavior and lead to criminal activity. Students will get out of the classroom and into the lab as they employ critical thinking and the scientific process to evaluate criminal behavior. They will learn how forensic tools and knowledge about human beings as individuals and social creatures can aid investigations. This course offers an excellent opportunity to apply science while developing a deeper appreciation for the complexity of human nature. MUST BE TAKEN WITH THE SCIENCE PORTION OF THE SAME COURSE.

# SOCIAL STUDIES DEPARTMENT OFFERINGS CONTINUED ON NEXT PAGE

# **SOCIAL STUDIES**

Students are required to pass four credits of Social Studies to graduate from Upper Dauphin Area High School. The following courses meet graduation requirements for Social Studies:

- Grade 9: (3010)Modern World History(NCAA Approved) /(3210)Honors Modern World History (NCAA Approved)
- Grade 10: (3026)American History I(NCAA Approved)(3227)Honors American History I (NCAA Approved)
- Grade 11: (3028)American History II(NCAA Approved)/ (3228)AP US History (NCAA Approved)

| Course Number | Course Name  | Grade | Duration | Credits | Weighted Value |
|---------------|--|-------|----------|---------|----------------|
| 3414          | Personal Finance   | 12    | Year     | 1       | 1              |
| 7210          | 7210 Honors Humanities 100                               |       | Year     | 1       | 1.06           |
| 7220          | 7220 Honors Humanities 101                               |       | Year     | 1       | 1.06           |
| LC3043        | LC3043 Lackawanna College Psych 105: Intro to Psychology |       | Semester | .5      | 1.06           |
| LC3550        | Lackawanna College Soc 105: Intro to<br>Sociology        | 11-12 | Semester | .5      | 1.06           |

#### Personal Finance

Using real-world situations, this course will give students the knowledge and general understanding of all key aspects of personal finances necessary to be successful now and throughout their adult lives. Students will look at making reasoned and informed decisions about current and future financial goals.

#### Honors Humanities 100 (NCAA APPROVED)(OFFERED 25-26)

Honors Humanities 100 is the introduction to a two-year sequential multi-disciplinary college-level course taught by faculty from the Art and Music Departments. The philosophies, music, and art forms of the major Western civilizations and cultural epochs from the Ancient World to the modern day are studied and analyzed in close detail with a heavy emphasis placed on the interrelationships evident between all three. Students will be required to write a research paper each marking period, complete weekly exams and actively participate in Seminar discussions.

# Honors Humanities 101 (NCAA APPROVED)(OFFERED 24-25)

Honors Humanities 101 is the continuation of a two-year sequential multi-disciplinary college-level course taught by faculty from the Art and Music Departments. The philosophies, music, and art forms of major Western civilizations and cultural epochs from the Ancient World to the modern day are studied and analyzed in close detail with a heavy emphasis placed on the interrelationships evident between all three. Students will be required to write a research paper each marking period, complete exams, and actively participate in seminar discussions.

# Lackawanna College Psych 105: Intro to Psychology (NCAA APPROVED)

Psychology, the study of the mind and behavior, is designed for students who plan to continue their education after high school. The course will focus on topics such as: historical approaches, research methods/statistics, life span, workings of the mind and body, learning and cognition, personality and disorders.

# Lackawanna College Soc 105: Intro to Sociology (NCAA APPROVED)

Sociology is the scientific study of human society and social interaction. All of us, of course, already have considerable experience living in society and interacting with other people. Sociology, however, is an unfamiliar way of looking at the familiar. It should help us understand our experience in a more critical way, and, therefore, to use that experience more effectively. As an introduction to the discipline of Sociology, this course is organized as a skills as well as a survey class. That is, in addition to acquainting you with the basic concepts used by sociologists to explain everyday social interaction; this course will give you elementary skills with which to "decode" society and social life. It is also designed to help you gain some insights on how to act on this knowledge.

# WELLNESS/PHYSICAL EDUCATION

Students are required to pass two and a half credits of Wellness/Physical Education to graduate from Upper Dauphin Area High School. The following courses meet graduation requirements for Wellness/Physical Education and each are with ½ credit:

- (9091)Freshmen Health-Yearlong- A/B
- (9092)Freshmen Physical Education-Yearlong- A/B
- (9101)Sophomore Health-Yearlong- A/B
- (9102)Sophomore Physical Education-Yearlong- A/B
- (9111)Junior Wellness- Semester

| Course Number | Course Name               | Grade | Duration     | Credits | Weighted Value |
|---------------|---------------------------|-------|--------------|---------|----------------|
| 9150          | Strength and Conditioning | 9-12  | Semester/A/B | .5      | 1              |
| HACCHLTH1011  | Healthful Living          | 11-12 | Semester     | .5      | 1.06           |

# **Strength and Conditioning** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT)

The course will provide an opportunity for development of strength and conditioning for various sports and fitness related activities. Free weights, exercise machines, and conditioning activities will be incorporated to promote improvement in strength, endurance, balance, agility, and speed. Proper technique, safety precautions, and application of training principles will be emphasized. A plan to achieve goals will be developed and implemented. This course is an elective that cannot be used for wellness credit applied toward graduation requirements.

# Healthful Living 101- (HACC)

Healthful Living studies the lifestyle factors and healthy choices that promote the dimensions of wellness and maintain the present and future health of the individual and the community. This course emphasizes health-related behavior change, risk factor reduction, and disease prevention, as well as explores such topics as: Psychological Health, Stress Management, Nutrition, Physical Activity, and Exercise. This course is an elective that cannot be used for wellness credit applied toward graduation requirements.

#### **WORLD LANGUAGE**

| Course Number | Course Name            | Grade | Duration | Credits | Weighted Value | Prerequisite |
|---------------|------------------------|-------|----------|---------|----------------|--------------|
| 5021          | French I               | 9-12  | Year     | 1       | 1.0            | N/A          |
| 5022          | French II              | 10-12 | Year     | 1       | 1.0            | 5021         |
| 5023          | French III             | 11-12 | Year     | 1       | 1.0            | 5022         |
| 5224          | Honors French IV       | 12    | Year     | 1       | 1.06           | 5023         |
| 5031          | Spanish I              | 9-12  | Year     | 1       | 1.0            | N/A          |
| 5032          | Spanish II             | 10-12 | Year     | 1       | 1.0            | 5031         |
| 5033          | Spanish III            | 11-12 | Year     | 1       | 1.0            | 5032         |
| 5234          | Honors Spanish IV      | 12    | Year     | 1       | 1.06           | 5033         |
| 5041          | German I               | 9-12  | Year     | 1       | 1.0            | N/A          |
| 5042          | German II              | 10-12 | Year     | 1       | 1.0            | 5041         |
| 5011          | Latin I                | 9-12  | Year     | 1       | 1.0            | N/A          |
| 5012          | Latin II               | 10-12 | Year     | 1       | 1.0            | 5011         |
| 5010          | American Sign Language | 9-12  | Year     | 1       | 1.0            | N/A          |

#### French I (NCAA APPROVED)-OFFERED ONLINE

Students will acquire language skills necessary for basic reading, writing, speaking, and listening. This is an online class which is supervised and monitored by one of our teachers.

#### French II (NCAA APPROVED)-OFFERED ONLINE

Basic concepts from French I are reviewed and expanded upon. Concepts are practiced through oral and written exercises. This is an online class which is supervised and monitored by one of our teachers.

#### French III (NCAA APPROVED)-OFFERED ONLINE

More advanced grammatical concepts are introduced, practiced, and reinforced through written and oral practice. Short story readings are also included. This is an online class which is supervised and monitored by one of our teachers.

**Honors French IV (NCAA APPROVED)-OFFERED ONLINE** Emphasis is on increased language use through conversation and reading. French history and culture will be studied in more depth. This is an online class which is supervised and monitored by one of our teachers.

#### Spanish I (NCAA APPROVED)

Students learn the fundamentals of the language necessary for basic conversation, reading and writing. Students are introduced to the countries of the Spanish-speaking world and are exposed to Hispanic traditions and lifestyles through reading, research projects and audio-visual support materials.

#### Spanish II (NCAA APPROVED)

Basic speech patterns learned in Spanish I are reinforced and expanded. New vocabulary and grammatical concepts are added and developed through oral and written exercises. Students continue to learn about the Spanish-speaking world through readings, research projects and audio-visual support materials.

#### Spanish III (NCAA APPROVED)

In Spanish III, additional vocabulary and more complex grammatical concepts are introduced and reinforced, and communication skills are expanded through more intensive reading, writing, speaking and listening activities. Language and culture are explored through multimedia resources and classroom activities.

#### Honors Spanish IV (NCAA APPROVED)

The focus of Honors Spanish IV is to improve and expand reading, writing, speaking and listening skills through the continued study of people and lifestyles of Spain and Latin America. Students will be expected to discuss cultural issues and present research projects in written and spoken Spanish.

#### German I (NCAA APPROVED)-OFFERED ONLINE

In German I, the student will acquire simple listening and speaking skills reinforced by a gradual study of related grammatical concepts. Traditions and lifestyles of the various German-speaking countries will be considered. This is an online class which is supervised and monitored by one of our teachers

#### German II (NCAA APPROVED)-OFFERED ONLINE

In German II, the student will deal with more advanced audio-lingual and grammatical concepts. The material will continue to revolve around various aspects of modern living in the German-speaking countries. This is an online class which is supervised and monitored by one of our teachers.

# Latin I--OFFERED ONLINE

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. This is an online class which is supervised and monitored by one of our teachers.

#### Latin II-OFFERED ONLINE

Immerse yourself in a journey through Roman history using the Latin language as your guideposts. In the Latin 2 course, you will build upon your first level grammar and vocabulary skills to help increase fluency and language proficiency. You will explore the culture and apply what you learn through translation practice as well as writing, listening, and conversation exercises, while learning all about the different eras of Rome from Foundation to Fall.

#### American Sign Language -OFFERED ONLINE

Did you know that American Sign Language (ASL) is the third most commonly used language in North America? American Sign Language will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness.

# **CAREER & TECHNICAL EDUCATION PROGRAMS**

The Upper Dauphin Area High School offers 5 Career & Technical Education Programs including Agriculture, Building Trades, Communications Technologies, Diversified Occupations and Welding. Interested students who meet the eligibility requirements will take coursework throughout high school and earn the proper credits to be considered a vocational concentrator/completer. Students who successfully complete coursework will also qualify for the NOCTI exam, a nationally recognized exam that measures the skills of those who complete a secondary technical program. Based on the results of this exam, students will have the opportunity to earn a certificate or college credit in the respective technical area.

## AGRICULTURE CAREER TECHNICAL EDUCATION PROGRAM

Concentrator of Agriculture program requires 4 credits

For more information on the scope and sequence of the agriculture program, click here.

| Course Number | Course Name                                | Grade | Duration | Credits | Weighted Value | Prerequisite      |
|---------------|--|-------|----------|---------|----------------|-------------------|
| 8013          | Basic Welding                              | 9-12  | Semester | .5      | 1.0            | 8051              |
| 8014          | Small Gas Engines                          | 10-12 | Semester | .5      | 1.0            | 8051              |
| 8017          | Advanced Agriculture<br>Mechanics          | 10-12 | Semester | .5      | 1.0            | 8051 /8013 /8014  |
| 8020          | Plant Science                              | 10-12 | Semester | .5      | 1.0            | 8053/2930         |
| 8022          | Forestry                                   | 10-12 | Semester | .5      | 1.0            | 8053/2930         |
| 8027          | Wildlife Management                        | 10-12 | Semester | .5      | 1.0            | 8053/2930         |
| 8026          | Natural Resource Management                | 10-12 | Semester | .5      | 1.0            | 8053/2930         |
| 8025          | Horticulture                               | 10-12 | Semester | .5      | 1.0            | 8053/2930         |
| 8038          | Greenhouse Production & Management- Fall   | 10-12 | Semester | .5      | 1.0            | 8053/2930         |
| 8039          | Greenhouse Production & Management- Spring | 10-12 | Semester | .5      | 1.0            | 8053/2930         |
| 8035          | Animal Science                             | 10-12 | Semester | .5      | 1.0            | Animal Principles |

Upon successful completion of courses marked with a (\*Sci), UDA science credit is awarded

# **Basic Welding**

The course covers fundamentals of welding in preparation for more advanced study and practice in this subject area. This course is offered as part of the Agriculture and Natural Resources program, and it is to be taken prior to entry into the Welding Technology program

#### Small Gas Engines

This course covers the small gas engine and its systems, such as carburetion, ignition, compression, governing and cooling. Use of common shop tools and measuring devices as well as tune-up and repair is emphasized. Students will also work in small groups disassembling and reassembling a single cylinder engine.

# Advanced Agriculture Mechanics

Students will build upon knowledge provided from prerequisite classes listed below. This will be achieved through project based learning and advanced planning.

# Plant Science (\*Sci)

This course is designed to teach the basics of soil science and agronomic crop production. The fundamentals of soil science will be covered before advancing to topics on growing agronomic crops common to Pennsylvania. Study of plant anatomy and physiology, classification, production, and management.

#### **Forestry**

This course covers principles and practices of the forestry industry encompassing the study of forest ecosystems, tree identification, and sustainable forest management. Through classroom instruction, hands-on activities and field studies, students will explore Pennsylvania forestry.

# Wildlife Management

This course introduces students to the world of Pennsylvania wildlife by focusing on wildlife conservation, mammal and bird identification, and wildlife management. Through classroom instruction, hands-on activities and field studies, students will explore Pennsylvania wildlife.

# Natural Resources Management

Students will cover topics on land use, water quality, sustainability, stewardship, and environmental agencies.

# Horticulture

Horticulture is defined as the science and art of growing fruits, vegetables, flowers, or ornamental plants. A key requirement of this course is the planning and implementation of a real-world, personalized student project.

#### Greenhouse Production and Management -Fall

Greenhouse structures, equipment, controls and management will be covered, as well as material on plant propagation and care. Students will gain extensive experience specifically in poinsettia propagation.

# Greenhouse Production and Management -Spring

Greenhouse structures, equipment, controls and management will be covered, as well as material on plant propagation and care. Students will gain extensive experience in vegetable and flower bedding plant production.

# Animal Science (\*Sci)

This is designed to expose students to agriculture, animal science, and related career options. Students participating in the course will have experiences in various animal science concepts with hands-on activities, projects, and problems. Students' experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, and health.

# AGRICULTURE CAREER TECHNICAL EDUCATION PROGRAM

Concentrator of Agriculture program requires 4 credits

For more information on the scope and sequence of the agriculture program, click here.

| Course Number | Course Name   | Grade | Duration | Credits | Weighted Value | Prerequisite             |
|---------------|---|-------|----------|---------|----------------|--------------------------|
| 8036          | Meat & Food Technology                                      | 10-12 | Semester | .5      | 1.0            | 8053                     |
| 8041          | Supervised Agriculture                                      | 10-12 | A/B      | .5      | 1.0            | 2 Credits in Agriculture |
| 8042          | Experience (SAE)  |       | Semester | .5      | 1.0            | 1                        |
| 8043          |   |       | Year     | 1       | 1.0            | 1                        |
| 8051          | Introduction to Agriculture<br>Mechanics & Technology       | 9-12  | Semester | .5      | 1.0            | N/A                      |
| 8053          | Introduction to Animal,<br>Plant Science, & Soil<br>Science | 9-12  | Semester | .5      | 1.0            | N/A                      |
| 8023          | Agriculture Leadership                                      | 9-12  | Semester | .5      | 1.0            | N/A                      |
| 8125          | Agriculture Business<br>Management                          | 9-12  | Semester | .5      | 1.0            | N/A                      |
| 8037          | Animal Principles   | 10-12 | Semester | .5      | 1.0            | 8053/2093                |

Upon successful completion of courses marked with a (\*Sci), UDA science credit is awarded.

# Meat and Food Technology

This course begins with an exploration of the U.S. and global food industry, and advances into topics relating science to the production and processing of foods. Meat processing and carcass evaluation is covered also.

# Supervised Agriculture Experience Project (SAE)

SAE supplements other agriculture education coursework. Students must identify a specific project or personal interest before enrolling in SAE.

# Introduction to Agricultural Mechanics and Technology (\*Sci)

This course covers scientific principles underlying the study of machine and technological systems in agriculture production and natural resource systems.

# Introduction to Animal, Plant Science, and Soil Science (\*Sci)

This course focuses on the scientific principles underlying the study of animals, plants, and soils in agricultural production and natural resource systems. It is a prerequisite for many Level II courses.

# Agriculture Business Management

This course covers starting a business, understanding financial documents, identifying risk management strategies, and writing a business plan

# Agriculture Leadership

This course covers various aspects of leadership and communication. Students will analyze their personal leadership skills through hands-on experiences in public relations, speaking and communication (verbal, written, and visual).

# **Animal Principles**

This course is designed for both farm and non-farm students with an interest in dairy, livestock and equine production. Feeding, genetics, reproduction, health care, and economics will be stressed

# **BUILDING TRADES CAREER TECHNICAL EDUCATION PROGRAM**

Completer of Building Trades program requires 9 credits Concentrator of Building Trades requires 6 credits

| Course Number | Course Name         | Grade | Duration        | Credits | Weighted Value | Prerequisite     |
|---------------|---------------------|-------|-----------------|---------|----------------|------------------|
| 9010          | Building Trades I   | 10-11 | Year- 3 Periods | 3       | 1.0            | 8011 (see pg 23) |
| 9011          | Building Trades II  | 11-12 | Year- 3 Periods | 3       | 1.0            | 9010             |
| 9012          | Building Trades III | 12    | Year- 3 Periods | 3       | 1.0            | 9011             |

# **Building Trades I**

Demonstrate safety rules for the construction trades, identify and demonstrate proper use of hand tools, identify and proper operations of portable power tools and equipment, introduction to local building codes and blueprint reading, introduction to masonry trades, introduction to rough carpentry, introduction to simple electrical and plumbing systems. Use of knowledge and skills at the off-site project.

# **Building Trades II**

Review of construction site safety, review of usage of hand and power tools, review of building codes and blueprint reading, assisting in preparing material list for off-site work or projects at the school. Be provided an in depth look at skilled trades, masonry, carpentry, electrical, plumbing, interior and exterior finishes. Building Trades II students will also be tasked with the design and construction of the display for the home builders show.

# **Building Trades III**

This course continues to expand upon the concepts and skills learned in previous years. Students will be involved in the design concept of the off-site project. The advanced students will be given the opportunity to lead and assist in training teams on the building site. Students will be provided time to expand and focus their understanding and knowledge of a specific trade area.

# <u>Additional Industry Credentials and Opportunities for Building Trades Students:</u>

- Membership in the NAHB student chapter.
- OSHA Ten Hour General Industry Safety Card.
- Recognitions from Industry Suppliers.
- Credentialing from the local Home Builders Association provided by local colleges.
- Advanced career placements through NAHB and local Home Builders Associations.
- Assistants in obtaining construction industry scholarship funding provided only to construction industry students.
- With membership in the NAHB student chapter, students have opportunities to compete for prizes at state level chapter
  events. For students winning state level chapter events, the opportunity exists to move to national level competitions. Just
  for information, the next three years the national competition will be held in Las Vegas, Nevada.

# COMMUNICATIONS TECHNOLOGIES CAREER TECHNICAL EDUCATION PROGRAM

Concentrator of Communication Technologies program requires 4 credits

| Course Number | Course Name  | Grade | Duration | Credits | Weighted Value | Prerequisite  |
|---------------|--|-------|----------|---------|----------------|---------------|
| 6433          | Computer Applications I-<br>Word<br>Processing/Presentation<br>Basics  | 9-12  | Semester | .5      | 1.0            | N/A           |
| 6434          | Computer Applications II  - Word  Processing/Presentation/ Spreadsheet | 9-12  | Semester | .5      | 1.0            | MS831 or 6433 |
| 6438          | HACC CIS 105:<br>Introduction to Computer<br>Applications              | 11-12 | Semester | .5      | 1.06           | N/A           |
| 6445          | Computer Applications-Graphic & Technology Design                      | 9-12  | Semester | .5      | 1.0            | N/A           |
| 6480          | Digital Media I- Video & Photography                                   | 9-12  | Semester | .5      | 1.0            | N/A           |
| 6482          | Digital Media II- Video & Photography                                  | 9-12  | Semester | .5      | 1.0            | 6480          |
| 6510          | Video Broadcasting I   | 9-12  | Year     | 1       | 1.0            | N/A           |
| 6515          | 1  |       | Semester | .5      |                |               |

# Computer Applications I – Word Processing/Presentation Basics

This course introduces students to word processing and presentation concepts as part of an office software productivity suite. This is a self-paced, hands-on approach that utilizes creative computer projections, group instruction, and step-by-step instruction using numerous business and general interest topics.

# Computer Applications II – Word Processing/Presentation/ Spreadsheet

This hands-on course builds on the basic concepts introduced in word processing and presentation as part of an office software productivity suite and introduces spreadsheet functionality. A focus of this course is to master these applications both separately and in an integrated environment.

# **HACC CIS 105 Introduction to Computer Applications**

Introduction to Computer Applications is a fundamental course designed to survey general topics in the computer field. Topics include computer concepts, hardware and software applications, and emerging technologies. In this course, students will work individually and in groups to explore these topics. Emphasis is placed on providing experience for learning basic and advanced features of word processing, database management, spreadsheet, and presentation applications. This course takes the hands-on approach utilizing step-by-step instruction using various business and general interest topics. Students apply problem-solving skills to real-life situations through the use of the software applications.

# Computer Applications – Graphic and Technology Design

Students will be introduced to computer applications that focus on the generation and adaptation of computer graphics and digital images. The integration of typography with imagery will be explored with emphasis being placed on creating visually appealing publications.

# Digital Media I - Video and Photography

This course introduces students to the fundamentals of digital video production and photography. Students will learn how to produce short videos, including story-boarding and shooting, and will finish productions using current video- and sound-editing software.

# Digital Media II - Video and Photography

This course will move students from the fundamentals of digital video production and photography to the more advanced features. This is a hands-on, project based course that utilizes digital media concepts which will feature digital media hardware/software tools, techniques and digital media applications.

## Video Broadcasting I

Video Broadcasting I is a project-based course, where students use industry-standard video editing hardware and software to learn the process of creating a broadcast-quality video production.

# COMMUNICATION TECHNOLOGY CTE OFFERINGS CONTINUED ON NEXT PAGE

# COMMUNICATIONS TECHNOLOGIES CAREER TECHNICAL EDUCATION PROGRAM

Concentrator of Communication Technologies program requires 4 credits.

| Course Number | Course Name                                      | Grade | Duration | Credits | Weighted Value | Prerequisite                                 |
|---------------|--|-------|----------|---------|----------------|--|
| 6520          | Video Broadcasting II                            | 10-12 | Year     | 1       | 1.0            | 6510/6515 (see pg. 36)                       |
| 6525          | 1  |       | Semester | .5      |                |  |
| 6530          | Video Broadcasting III                           | 11-12 | Year     | 1       | 1.0            | 6520/6525                                    |
| 6535          | 1  |       | Semester | .5      |                |  |
| 6905          | Yearbook   | 9-12  | Semester | .5      | 1.0            | N/A  |
| 6910          | 1  |       | Year     | 1       |                |  |
| 9605          | Student Help Desk                                | 10-12 | Year     | 1       | 1.0            | N/A  |
| 9606          | 1  |       | Semester | .5      |                |  |
| PC6120        | BIM120: Social Media in Business & Society       | 11-12 | Semester | .5      | 1.06           | 2.0 GPA                                      |
| PC6150        | BWM150: Introduction to Web Page Development     | 11-12 | Year     | 1       | 1.06           | 1013(see pg. 24) /2.0 GPA                    |
| PC6160        | CIT160: Introduction to<br>Programming           | 11-12 | Year     | 1       | 1.06           | 1024 (see pg. 24) /2.0<br>GPA/Placement Test |
| PCCSC132      | CSC123: Introduction to<br>Gaming and Simulation | 11-12 | Year     | 1       | 1.06           | 2.0 GPA                                      |

# Video Broadcasting II

Students will apply concepts they learned in Video Broadcasting I as well as learn more hardware, software, and production processes used to create video and audio productions in order to produce all aspects and content of a regularly scheduled production as part of a production team.

## Video Broadcasting III

Students will apply concepts they learned in Video Broadcasting II as well as learn more hardware, software, and production processes used to create video and audio productions in order to produce all aspects and content of a regularly scheduled production as part of a production team..

**Yearbook** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT) Students in journalism will work on various publications from the high school. They will develop their photography, writing, sales, communication technology, design and publication skills for publications including the yearbook.

# **Student Help Desk** (MAY BE TAKEN MULTIPLE TIMES FOR CREDIT)

The Student Help Desk is a student technology innovation and integration course. The course is a hands on study of technology integration in an educational context. Students are required to assess problem sets throughout the day and define the best approach to addressing or solving the problem.

# BIM120: Social Media in Business & Society

Examination of the strategic use of social media for personal, professional, and business communication, advertising, and marketing. Course work includes using various social media tools, creating and sharing content, and collaborating on group campaigns using social media for social change. Includes analysis of current and emerging social media tools from a personal and business perspective. In order for students to take this course, every student enrolled must pay \$80 (this may change if book price goes up) for the text and course platform.

**BWM150:** Introduction to Web Page Development
Introductory coverage of the Internet and online Web
technologies. Skills learned include how to plan, create, and
maintain static web pages.

#### CIT160: Introduction to Programming

Introduction to problem-solving techniques, elementary programming and the implementation of these techniques.

# **CSC132: Introduction to Gaming and Simulation**

This course teaches the play-centric approach to designing both physical and digital games. No coding experience is needed as we use visual game editor to create digital games.

# **DIVERSIFIED OCCUPATIONS EDUCATION COURSE OFFERINGS**

Completer of Diversified Occupations CTE Program requires 4 credits

| Course Number | Course Name                | Grade | Duration        | Credits | Weighted Value |
|---------------|----------------------------|-------|-----------------|---------|----------------|
| 9510          | Diversified Occupations I  | 12    | Year            | 1       | 1.0            |
| 9520          | Diversified Occupations II | 12    | Year- 3 Periods | 3       | 1.0            |

# Diversified Occupations I

This senior course may be taken as an elective, but it is required for seniors enrolled in Diversified Occupations II. It covers career exploration, acquisition, maintenance, advancement and entrepreneurship. It also deals with meeting adult responsibilities.

# **Diversified Occupations II**

The D.O. II program includes placement of the student at a business and/or local establishment for on-the-job training for ½ of each school day. Training agreements are arranged between the employer-trainer, student-learner, parent, and the school. Students are placed on the job by the employer/trainer through the job search process. The job site will comply with all federal and state labor laws. The classroom part of the course includes work as it is related to the individual's job and other related outcomes from the student's working environment. A portfolio will be required for each student to log hours worked and outcomes achieved from a pre-approved job site. Ongoing visitations and/or career counseling will take place throughout the school year with the D.O. Coordinator. Pre-approval for job sites should take place before the start of one's senior year.

# WELDING TECHNOLOGY

Completer of Welding Technology program requires 9 credits Concentrator of Welding Technology program requires 6 credits

| Course Number | Course Name           | Grade | Duration        | Credits | Weighted Value | Prerequisite     |
|---------------|-----------------------|-------|-----------------|---------|----------------|------------------|
| 8200          | Level 1 Welding       | 10-12 | Year- 3 Periods | 3       | 1.0            | 8013 (see pg 33) |
| 8210          | Level 2 Welding       | 11-12 | Year- 3 Periods | 3       | 1.0            | 8200             |
| 8220          | Level 3 Welding       | 12    | Year- 3 Periods | 3       | 1.0            | 8210             |
| 8230          | Cooperative Education | 12    | Year            | 1       | 1.0            | 8210             |

# Level I Welding

The Level I Welding Technology program provides students with training in Occupational Safety, Principles of Welding, Weld Drawing and Symbols, Weld Inspection, Shielded Arc Welding (SMAW), Manual Oxy Fuel Cutting and Welding, Brazing and Soldering.

# Level II Welding

The Level II Welding Technology program provides students with training in Oxy Fuel Cutting and Welding, Gas Metal Arc Welding, MIG Weld Safety/Operation, Flux Core Welding Safety, Plasma Cutting, Weld Drawing and Symbols, Weld Inspection, Weld Drawings and Symbols, Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW), Mechanized Oxy Fuel Cutting, and Plasma Arc Cutting (PAC). This course also offers Employability Skills Training.

# Level III Welding

The Level III Welding Technology program provides students with training in:

# **OPTION 1:**

- TIG Weld Safety/Operation
- Brazing and Soldering Set Up/Operation
- 800s: Gas Tungsten Arc Cutting (GTAW)
- 1300s Brazing and Soldering

# OPTION 2: Cooperative Education – In the Field Accountability Targets Achieve proficient or advanced

on the Keystone Exams, graduate with a high school diploma, achieve Competent to Advanced on the NOCTI exam number, 4172, Welding. Success in Meeting Secondary Core Indicators.

# Cooperative Education Class

This senior course covers career exploration, acquisition, maintenance, advancement and entrepreneurship. It also deals with meeting adult responsibilities. This course is required for students simultaneously enrolled in Level III Welding Option 2: Cooperative Education.

# **NCAA** Eligibility

If a student wants to play college sports at an NCAA Division I or II school, then the process begins by registering with the NCAA Eligibility Center during their sophomore year.

# Core Courses

NCAA schools require college- bound student athletes to build a foundation of high school courses to prepare them for the college classroom. Not all high school classes qualify. Only English, math (Algebra I or higher), science, social studies, or world language may be approved as NCAA core courses. Visit NCAA Eligibility Center for a complete list of Upper Dauphin's approved core courses.

\*The NCAA has very specific guidelines for online courses. Please check with your counselor to ensure that any requested online courses are approved prior to enrollment

# Grade Point Average

The NCAA Eligibility Center calculates a students grade point average (GPA) based on the grades earned in NCAA- approved core courses.

If students know they plan to pursue college athletics, schedule a meeting with your counselor during your freshman or sophomore year. The guidance counselor may include the athletic director in the meeting to help explain the requirements of playing college sports, and to help determine a pathway to college athletics.

The following are Upper Dauphin High School's NCAA approved courses:

| <u>English</u>              |
|-----------------------------|
| Academic English 1          |
| Honors English 1            |
| Academic English 2          |
| Honors English 2            |
| Academic English 3          |
| Honors English 3            |
| Academic English 4          |
| AP English                  |
| Creative Writing            |
| Penn College Honors English |
| Mythology                   |
|                             |

| <u>Math</u>                |
|----------------------------|
| Algebra I                  |
| Algebra IA/1B (.5 credits  |
| each)                      |
| Academic Algebra II        |
| Honors Algebra II          |
| Geometry                   |
| Honors Geometry            |
| Precalculus                |
| Honors Precalculus         |
| Honors Calculus I          |
| Statistics                 |
| Harrisburg University Math |
| 120                        |
| Harrisburg University Math |
| 220                        |

# **Science** Biology Honors Biology Honors Advanced Chemistry AP Biology Introductory Chemistry College Prep Chemistry & Lab College Prep Physics Anatomy & Physiology **Environmental Science** Astronomy Earth Science Honors Electricity & Magnetism Honors Waves, Sound & Optics Penn College CHM100: Fundamentals of Chemistry/College Prep Chemistry & Lab

# **Social Studies** Modern World History Honors Modern World History American History I Honors American History I American History II Local History Freedom: Understanding the Nation Intro to Economics AP US History Honors Humanities 100 Honors Humanities 101 Lackawanna College Soc 105: Intro to Sociology Lackawanna College Psych 105: Intro to Psychology College Prep Principles of **E**conomics

# Other Courses French I, II, III Honors French IV Spanish I, II, III Honors Spanish IV German I, II

# **EARLY POST SECONDARY OPPORTUNITIES**

Upper Dauphin has relationships with several area post-secondary institutions to allow students the opportunity to experience college coursework prior to high school graduation. Upon graduation, the transfer of college credits earned through the dual enrollment program is at the discretion of the receiving college or university. When students make a final decision on the college they will attend, the student must request a transcript from the college/university through which a dual enrollment class was taken for review of transfer credit. CLICK HERE for more detailed information about these opportunities..

STUDENT RECORD SHEET OF SUBJECTS, GRADES & CREDITS
Use this paper to plan your program of study for each grade. Fill in the name of your elective subjects, the number of credits earned, and the final grades achieved. .

# KEEP THIS PAPER FOR FUTURE REFERENCE AND PLANNING

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|---------------------|-----------|----------------------------|-------------------|
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| lath (4 Required)   |           | Wellness/PE (2.5 Required) |                   |
| Course Name         | Completed | Course Name                | Completed         |
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| Palamaa /2 Daguirad | Λ.        | _Electives (7.5 Reg        |                   |
| ocience (o Required | )         | LIECTIVES (1.3 INCU        | uired)            |
| Course Name         |           | Course Name                |                   |
|                     | Completed |                            | uired)  Completed |
|                     |           |                            |                   |
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| Science (3 Required |           |                            |                   |