

# Dallastown Area High School

## Course Selection Guidebook

### 2021-2022



Agriculture, Food and Natural  
Resources



Architecture & Construction



Arts, Audio, Video Tech, &  
Communications



Business Management &  
Administration



Education



Finance



Government & Public Administration



Health Science



Hospitality & Tourism



Human Services



Law, Public Safety, Corrections & Security



Manufacturing



Marketing



Science, Tech, Engineering & Math  
(STEM)



Transportation, Distribution, & Logistics



Undecided

*Inspiring and creating pathways for student success.*

*Dallastown Area School District*

# TABLE OF CONTENTS



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HIGH SCHOOL**  
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<b>COLLEGE/CAREER EDUCATION OPPORTUNITIES.....</b>	<b>3</b>
DUAL ENROLLMENT.....	3
HACC.....	3
JOB SHADOWING.....	3
YCST.....	3
eLEARNING ONLINE OPPORTUNITIES.....	4
<b>GRADUATION REQUIREMENTS.....</b>	<b>5</b>
<b>COURSE LEVELING.....</b>	<b>6</b>
<b>NCAA.....</b>	<b>7</b>
<b>TRIMESTER LOCKED COURSES.....</b>	<b>11</b>
<b>COURSE TITLES &amp; DESCRIPTIONS</b>	
ART.....	12
BUSINESS.....	18
CAREER, CAPSTONE, AND LEADERSHIP.....	23
ENGLISH.....	28
FAMILY & CONSUMER SCIENCE.....	38
GIFTED.....	40
HEALTH & PHYSICAL EDUCATION.....	41
MATHEMATICS.....	47
PERFORMING ARTS.....	55
SCIENCE.....	61
SOCIAL STUDIES.....	70
TECHNOLOGY & ENGINEERING.....	78
WORLD LANGUAGE.....	88

# COLLEGE/CAREER EDUCATION OPPORTUNITIES

## DUAL ENROLLMENT

Participation in this program provides high school juniors and seniors the opportunity to earn college credit while completing their high school requirements. Any junior or senior meeting the academic requirements is eligible to participate. Students may take online classes or campus-based classes at Harrisburg Area Community College York Campus, The Pennsylvania State University York Campus, York College of Pennsylvania, Millersville University, or any other endorsed institution. This learning format affords students both scheduling flexibility and academic challenge. While students participating in the program receive a discounted cost for tuition from participating colleges and universities, financial costs are incurred. To learn more about this exciting educational initiative, please schedule an appointment with Mr. Probert, Workforce, Career and College Counselor, or contact him at 717-244-4021, ext. 3345, or at [william.probert@dallastown.net](mailto:william.probert@dallastown.net).

## HARRISBURG AREA COMMUNITY COLLEGE (HACC) ACADEMY

HACC Academy provides training for seniors in the areas of:

- Automotive Technology (all year)
- Nurse Aide (one trimester)
- Trade and Industrial Technology (all year)
- Welding (two trimesters)

Students leave school after period 3 – 11:16 AM - to travel to HACC. These programs are provided at no cost to the students. Students must provide their own transportation to their homes from HACC.

## JOB SHADOWING

11<sup>th</sup> and 12<sup>th</sup> grade students may spend up to two days each year in the prearranged and approved workplace visits with a person closely related to the students' career areas of interest.

## YORK COUNTY SCHOOL OF TECHNOLOGY (YCST) PART-TIME

YCST offers afternoon courses at their campus for 11<sup>th</sup> and 12<sup>th</sup> grade students. Courses run daily from 1:30 to 3:00 P.M. Students attend school in the morning and early afternoon at Dallastown and then attend YCST for their specific class. Interested individuals should contact Mr. William Probert in the Workforce, Career, and College Counselor office.

- Construction Technician:  
Students dismissed at the end of period 4 – 1:00 PM
- Introduction to Automotive Technology:  
Students dismissed at the end of period 4
- Introduction to Welding:  
Students dismissed at the end of period 4
- Mechatronics/Industrial Controls Technology:  
Students dismissed at the end of period 4
- Nail Technology:  
Students dismissed at the end of period 4



## Top Dallastown eLearning Partnered Course Offerings, by Discipline

### Healthcare

Pharmacy Technician  
Dental Assisting  
Medical Billing & Coding  
EKG Technician Program  
Electronic Health Records  
Phlebotomy Technician  
Medical Admin Assistant  
Dialysis Technician

### Information Technology

CompTIA A+  
CompTIA Network+  
CompTIA Security+  
Front-End Web Developer  
Ruby on Rails Web Developer MEAN  
Stack Web Developer Certified  
Information Systems Security Java  
Programming Specialist

### Criminal Justice

Corrections Specialist  
Law Enforcement Professional  
Homeland Security Specialist  
Victimology  
Criminal Investigation Professional  
Criminal Justice Professional  
Criminal Procedure Specialist  
Juvenile Justice Specialist

### Business Management

Accounting Professional  
Administrative Assistant w/ bookkeeping & quickBooks  
Business Management Professional  
Organizational Behavior Professional  
Marketing Professional  
Business Information Systems Professional  
HR Professional  
Finance Professional

### Law

Paralegal Professional  
Business Law Specialist  
Law Enforcement Professional  
Legal Assistant  
Real Estate Professional  
Criminal Law & Procedure Specialist  
Family Law Professional

### Other

Childcare Specialist  
Psychology  
Sociology  
Life Sciences Specialist  
Environmental Specialist

Email: [william.probert@dallastown.net](mailto:william.probert@dallastown.net)

Phone (717) 244-4021



# GRADUATION REQUIREMENTS

## DALLASTOWN AREA HIGH SCHOOL GRADUATION REQUIREMENTS

	<b>Required Credits</b>	<b>Required Courses</b>
<b>English</b>	4 credits	English I (9) English II (10) English III plus English elective or AP Lang/Comp (11)
<b>Math</b>	3 credits	Algebra I (if taken in MS, does not count as HS credit) Geometry (if taken in MS, does not count as HS credit)
<b>Science</b>	3 credits	Gen Science or Hon Chemistry (9) Biology or AP Biology (10)
<b>Social Studies</b>	3 credits	World Cultures or AP Human Geography (9) Amer Cultures or AP US History (10) Government and Politics plus SS Elective, or AP Gov/Politics (11 or 12)
<b>Humanities</b>	2 credits	Humanities credits include World Languages, Music, Art, Engineering & Technology, FACS, or English and Social Studies credits exceeding graduation requirements.
<b>Physical Education</b>	1.5 credits (3 courses)	
<b>Financial Lit/Econ</b>	0.5 credit	
<b>Personal Health</b>	0.5 credit	
<b>Electives</b>	5.5 credits	
<b>Senior Portfolio</b>	1.0 credit	
<b>Grand Total</b>	24 credits	

# COURSE LEVELING

## Dallastown Area High School Leveling Practices

The leveling practices at Dallastown Area High School are designed to support a rigorous learning environment for all students. The instructional levels are outlined below to assist students, parents, and teachers in selecting the most appropriate course level based on the student's academic ability. Listed below is the Open Enrollment Procedure utilized to support our students in the course selection process.

### Open Enrollment Procedures

Students are encouraged to take challenging, yet appropriate courses over the duration of their high school career. When making course selections students should:

1. Align course selections with career goals.
2. Select course level (CCR, Honors, AP) based on personal academic ability.
3. Investigate the requirements (homework, classwork, time commitment, etc.) of each selected course.
4. Ensure that prerequisites are met for selected courses.
5. Discuss choices with current teachers and parents.
6. Secure recommendation of support from current teachers.

### Levels Defined:

#### General Education: AP Level

These courses are taught at the college level and are designed for students who want enrichment beyond CCR and Honors Level courses. Students should have excellent grammar, reading, and writing skills, they should be highly motivated, and possess an exceptional academic work ethic. These students should also have a high interest in the areas of study and are motivated to excel in this course. (These courses are weighted on a 5-point scale.)

#### General Education: Honors Level

These courses are taught on or above grade level and they are designed for college-bound students. These courses are for students that are self-motivated and are responsible independent thinkers. These students will have excellent grammar, reading, and writing skills and possess a strong academic work ethic. (These courses are weighted on a 5-point scale.)

#### General Education: Career and College Ready

These courses are taught using "on grade" regular education curriculum in a setting where students will be expected to master the standards. This class is designed for students who seek to pursue career or college aspirations upon graduation. (These courses are weighted on a 4-point scale.)

#### Special Educational Services: Replacement

Receive instruction in modified "core" curriculum in a separate replacement setting. Students receive instruction in elective courses in the regular education with adaptations and Special Education support. (*This course level is selected based on the decision of the IEP team.*) (These courses are weighted on a 4-point scale.)

#### Special Education Services: Autistic Support

Students receive instruction in modified "core" curriculum in a separate autistic support setting. Students receive instruction in elective courses in the regular education setting with modifications and adaptations from Special Education support. (*This course level is selected based on the decision of the IEP team.*) (These courses utilize an adapted assessment and reporting system.)

#### Special Education Services: Life Skills Support

Students receive instruction in modified "core" curriculum in a separate life skills setting. Students receive instruction in elective courses in the regular education setting with modification and adaptations from Special Education support. (*This course level is selected based on the decision of the IEP team.*) (These courses utilize an adapted assessment and reporting system.)

#### Special Education Services: Neurological Support

Receive instruction in modified "core" curriculum in a separate NI setting. Students receive instruction in elective courses in the regular education setting with adaptations and Special Education support. (*This course level is selected based on the decision of the IEP team.*) (These courses utilize an adapted assessment and reporting system.)



## DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes enrolling at an NCAA Division I school need to meet the following academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

### Core-Course Requirement

Complete 16 core courses in the following areas:



### FULL QUALIFIER

- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### ACADEMIC REDSHIRT

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

#### Full Qualifier

College-bound student-athletes may practice, compete and receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division I school.

#### Academic Redshirt

College-bound student-athletes may receive an athletics scholarship during their first year of full-time enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

#### Nonqualifier

College-bound student-athletes will not be able to practice, compete or receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division I school.

#### International Students

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.



## Test Scores

If a student plans to attend an NCAA Division I college or university in the 2019-20 or 2020-21 academic years, use the following charts to understand the core-course GPA he or she will need to meet NCAA Division I requirements.

A combined SAT score is calculated by adding critical reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscores from each test are used for the academic certification process.

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of **9999** to send their scores directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts **CANNOT** be used in an academic certification.

DIVISION I FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.550	400	37
3.525	410	38
3.500	430	39
3.475	440	40
3.450	460	41
3.425	470	41
3.400	490	42
3.375	500	42
3.350	520	43
3.325	530	44
3.300	550	44
3.275	560	45
3.250	580	46
3.225	590	46
3.200	600	47
3.175	620	47
3.150	630	48
3.125	650	49
3.100	660	49
3.075	680	50
3.050	690	50
3.025	710	51
3.000	720	52
2.975	730	52
2.950	740	53
2.925	750	53
2.900	750	54
2.875	760	55
2.850	770	56
2.825	780	56
2.800	790	57
2.775	800	58

DIVISION I FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
2.750	810	59
2.725	820	60
2.700	830	61
2.675	840	61
2.650	850	62
2.625	860	63
2.600	860	64
2.575	870	65
2.550	880	66
2.525	890	67
2.500	900	68
2.475	910	69
2.450	920	70
2.425	930	70
2.400	940	71
2.375	950	72
2.350	960	73
2.325	970	74
2.300	980	75
2.299	990	76
2.275	990	76
2.250	1000	77
2.225	1010	78
2.200	1020	79
2.175	1030	80
2.150	1040	81
2.125	1050	82
2.100	1060	83
2.075	1070	84
2.050	1080	85
2.025	1090	86
2.000	1100	86

ACADEMIC REDSHIRT

\*Final concordance research between the new SAT and ACT is ongoing.



## DIVISION II ACADEMIC REQUIREMENTS

College-bound student-athletes enrolling at an NCAA Division II school need to meet the following academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

### Core-Course Requirement

Complete 16 core courses in the following areas:



### FULL QUALIFIER

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division II full qualifier sliding scale (see back page).
- Graduate high school.

### PARTIAL QUALIFIER

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division II partial qualifier sliding scale (see back page).
- Graduate high school.

### Full Qualifier

College-bound student-athletes may practice, compete and receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division II school.

### Partial Qualifier

College-bound student-athletes may receive an athletics scholarship during their first year of enrollment and may practice during their first year of full-time enrollment at a Division II school, but may NOT compete.

### Nonqualifier

College-bound student-athletes will not be able to practice, compete or receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division II school.

### International Students

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.

Click [here](#) for Division I academic requirements.



DIVISION II FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.300 & above	400	37
3.275	410	38
3.250	430	39
3.225	440	40
3.200	460	41
3.175	470	41
3.150	490	42
3.125	500	42
3.100	520	43
3.075	530	44
3.050	550	44
3.025	580	45
3.000	580	46
2.975	590	46
2.950	600	47
2.925	620	47
2.900	630	48
2.875	650	49
2.850	660	49
2.825	680	50
2.800	690	50
2.775	710	51
2.750	720	52
2.725	730	52
2.700	740	53
2.675	750	53
2.650	750	54
2.625	760	55
2.600	770	56
2.575	780	56
2.550	790	57
2.525	800	58
2.500	810	59
2.475	820	60
2.450	830	61
2.425	840	61
2.400	850	62
2.375	860	63
2.350	860	64
2.325	870	65
2.300	880	66
2.275	890	67
2.250	900	68
2.225	910	69
2.200	920	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.050 & above	400	37
3.025	410	38
3.000	430	39
2.975	440	40
2.950	460	41
2.925	470	41
2.900	490	42
2.875	500	42
2.850	520	43
2.825	530	44
2.800	550	44
2.775	580	45
2.750	580	46
2.725	590	46
2.700	600	47
2.675	620	47
2.650	630	48
2.625	650	49
2.600	660	49
2.575	680	50
2.550	690	50
2.525	710	51
2.500	720	52
2.475	730	52
2.450	740	53
2.425	750	53
2.400	750	54
2.375	760	55
2.350	770	56
2.325	780	56
2.300	790	57
2.275	800	58
2.250	810	59
2.225	820	60
2.200	830	61
2.175	840	61
2.150	850	62
2.125	860	63
2.100	860	64
2.075	870	65
2.050	880	66
2.025	890	67
2.000	900	68 & above

## Test Scores

If a student plans to attend an NCAA Division II college or university in the 2019-20 or 2020-21 academic years, use the following charts to understand the core-course GPA he or she will need to meet NCAA Division II requirements.

A combined SAT score is calculated by adding critical reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscores from each test are used for the academic certification process.

# TRIMESTER LOCKED COURSES

AP Calculus AB – Tri 1 & 2

AP Calculus BC – Tri 1 & 2

AP Calculus Extensions – Tri 3

AP Computer Science A – Tri 2 & 3

AP Computer Science Principles – Tri 2 & 3

AP English Language and Composition - Tri 1 & 2

AP English Literature and Composition – Tri 1 & 2

AP Environmental Science – Tri 1 & 2

AP European History – Tri 1 & 2

AP Human Geography - Tri 1 & 2

AP Macroeconomics – Tri 1 & 2 (offered 2022-2023)

AP Microeconomics – Tri 1 & 2 (offered 2021-2022)

AP Physics 1 – Tri 1 & 2

AP Physics C: Mechanics – Tri 1

AP Physics C: Electricity and Magnetism – Tri 2

AP Psychology – Tri 1 & 2

AP Spanish Language and Culture – Tri 1 & 2

AP Statistics – Tri 1 & 2

AP Studio Art – Tri 1 & 2

AP U.S. Government/Politics – Tri 1 & 2

AP U.S. History – Tri 1 & 2

Field Zoology – Tri 3 only

Honors Challenges in Physics – Tri 3 only

Honors Biology - Tri 1 & 2

## Physical Education Electives:

- Couch to 5K – Tri 1 or 3 only
- Fall Lifetime Sports – Tri 1 only
- Spring Lifetime Sports – Tri 3 only
- Winter Lifetime Sports – Tri 2 only

## COURSE TITLE

## DESCRIPTION

### ART

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### Grade 9

Art Fundamentals  
 Computer Graphic Design  
 Creating with Fibers  
 Sculpture I

#### Grade 10

Art Fundamentals  
 Art History  
 Ceramics I  
 Computer Graphic Design  
 Computer Graphic Design II  
 Creating with Fibers  
 Creating with Fibers II  
 Drawing I  
 Painting I  
 Sculpture I

#### Grade 11

Art Fundamentals  
 Art History  
 Ceramics I  
 Ceramics II  
 Computer Graphic Design  
 Computer Graphic Design II  
 Creating with Fibers  
 Creating with Fibers II  
 Drawing I  
 Drawing II

#### Grade 11 (continued)

Painting I  
 Painting II  
 Sculpture I

#### Grade 12

AP Studio Art  
 Art Fundamentals  
 Art History  
 Ceramics I  
 Ceramics II  
 Ceramics III  
 Computer Graphic Design  
 Computer Graphic Design II  
 Creating with Fibers  
 Creating with Fibers II  
 Drawing I  
 Drawing II  
 Drawing III  
 Painting I  
 Painting II  
 Painting III  
 Sculpture I

## COURSE TITLE

## DESCRIPTION

**AP STUDIO ART****(T0640A) AP STUDIO ART A****(T0640B) AP STUDIO ART B**DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: It is required that a student have a B average or better in Drawing II and Painting II and receive written approval of the art teacher to take this class. Students must also pass a portfolio review for acceptance into this course

The Advanced Placement (AP) Studio Art Program is a college level studio art course. To be eligible to take AP Studio Art, students must pass a portfolio review and have earned a B average or better in Drawing II and Painting II. AP Studio Art students will experience a fast paced, creative and rigorous art making environment to work toward the submission of a college-level portfolio for evaluation. A qualifying portfolio score can earn college credit and/or advanced placement, depending on the specific requirements of the college/university. The AP Studio Art portfolio exam contains two sections: the "Sustained Investigation" section requires an inquiry-guided investigation through practice, experimentation, and revision; the "Selected Works" section is expected to demonstrate skillful synthesis of materials, processes, and ideas. For both sections of the portfolio, students are expected to share information in writing about their work. AP Studio Art students will need to complete at least one portfolio level piece per week throughout two trimesters. Completed artwork must reflect advanced levels of craftsmanship and creativity while also emphasizing research, experimentation, discovery, inventive thinking, critical analysis and problem-solving. More information about the AP Studio Art portfolio exam can be found at collegeboard.org. **This course will have many hours of work outside of class each week including occasional Saturday studio hours and required summer homework.**

**ART FUNDAMENTALS****(T0665) ART FUNDAMENTALS**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: None

Art Fundamentals is the prerequisite needed in order to take Drawing I and/or Painting I. Students will be introduced to the basics of visual art and will create original two-dimensional art works that use the elements and principles of art and design. **Participation in an art show is a course requirement.**

**ART HISTORY****(T0657) ART HISTORY**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 10-12

PREREQUISITE: None

Art History examines major periods, themes, and forms of art history in the Western and Non-Western World. Students look at, discuss, and write about art. **Participation in an art show is a course requirement.**

## COURSE TITLE

## DESCRIPTION

**CERAMICS I****(T0667) CERAMICS I**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 10-12  
 PREREQUISITE: It is required that a student have a B average in Sculpture I and have written approval of the art teacher to take this class

Ceramics I is a studio-oriented environment that focuses on the functional and decorative aspects of the ceramic arts. Students will be required to keep a sketchbook and create works based on hand-built and wheel thrown construction. Ceramic projects will be historically and culturally referenced in order for the students to gain an understanding of ceramic's relationship to the Arts throughout history. **Participation in an art show is a course requirement.**

**CERAMICS II****(T0668) CERAMICS II**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 11-12  
 PREREQUISITE: It is required that a student have a B average in Ceramics I and receive written approval of the art teacher to take this class.

Ceramics II is a studio-oriented class that focuses on exposure to the functional and non-functional aspects of ceramic arts. Students will be required to keep a sketchbook and create works based on pinching, coil, slab and hand-building construction as well as wheel thrown techniques. Projects will be large scale and technically challenging. Works will be historically and culturally referenced in order for the student to gain an understanding of history and its relationship to the Arts. Students will also be exposed to loading a kiln and the firing process. **Participation in an art show is a course requirement.**

**CERAMICS III****(T0669) CERAMICS III**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 12  
 PREREQUISITE: It is required that a student have a B average in Ceramics II and receive written approval of the art teacher to take this class.

Ceramics III is a studio-oriented class that focuses on exposure to the functional and non-functional aspects of ceramic arts. Students will be required to keep a sketchbook and create works based on pinching, coil, slab and hand-building construction as well as wheel thrown techniques. Students will focus on large scale, innovative projects and perfecting craftsmanship. Works will be historically and culturally referenced in order for the student to gain an understanding of history and its relationship to the Arts. Students will also be expected to help load kilns and with the firing process. **Participation in an art show is a course requirement.**

**COMPUTER GRAPHIC DESIGN****(T0658) COMPUTER GRAPHIC DESIGN**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 9-12  
 PREREQUISITE: None

Computer Graphic Design I is an introductory computer-based art course that focuses on basic visual communication. The class will cover graphic design skills ranging from computer-imaging software (Photoshop, Illustrator and In-Design), terminology, and design composition. It is recommended that you take *Graphic Productions* (see Tech Ed description) before or after to enhance your understanding of the graphic world. Projects may include: newsletters, notebooks covers, photomontages, photo morphs, photo manipulation, alteration and adjusting, and word designs. **Participation in an art show is a course requirement.**

## COURSE TITLE

## DESCRIPTION

**COMPUTER GRAPHIC DESIGN II****(T0659) COMPUTER GRAPHIC DESIGN II**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 10-12  
 PREREQUISITE: It is required that a student have a B average in Computer Graphic Design and receive written approval of the art teacher to take this class

Computer Graphic Design II will explore the principles of grid theory, text and display typography, page layout, and type and image integration as they relate to a range of publication design as the visual representation of language. Creative problem-solving experiences focus on the selection, generation and use of imagery and how Photoshop will be explored as students begin to work towards visual themes. Design process skills are enhanced as student's research and develop storyboard ideas that are applied to product designs for the real world. Students will have the ability to participate in a program that allows them to get an Adobe Photoshop Certificate. Projects may include: logo design, business card and letterhead, product design, poster design, typography, advertising, self-portrait, photo manipulation and collage.

**CREATING WITH FIBERS****(T0660) CREATING WITH FIBERS**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 9-12  
 PREREQUISITE: None

Students will explore the techniques involved in both warp and weft-faced weavings through the creation of original fiber art works and the study of non-western art and culture. Projects may include macramé, tie dying, basket weaving, bead weaving, cardboard, floor, and inkle loom weaving. Students may be asked to purchase some additional materials. **Participation in an art show is a course requirement.**

**CREATING WITH FIBERS II****(T0661) CREATING WITH FIBERS II**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 10-12  
 PREREQUISITE: It is required that a student have a B average in Creating with Fibers and receive written approval of the art teacher to take this course.

Students will explore advanced fiber arts through the creation of original, self-guided projects. Students will be responsible for researching, planning and learning about fiber arts products and materials independently, while completing paperwork to manage their designs and plans. In this course, the teacher is simply the facilitator. In addition to project making, students will also explore the history of fiber arts through in-depth analysis of non-Western cultures and craft. Art careers, and a focus on budget management will be explored through independent research and field experiences. Students may have to purchase some additional materials. **Participation in an art show is a course requirement.**

**DRAWING I****(T0610) DRAWING I**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 10-12  
 PREREQUISITE: It is required that a student maintain a B average in Art Fundamentals and receive written approval of the art teacher in order to take this class.

Drawing I is designed for students who wish to develop and explore their artistic skills, talents, and creativity. Outside assignments are an integral part of the class as a high quality of work is stressed. Student will experience a variety of drawing media in relation to the elements and principles of art. Students will begin to develop an art portfolio. **Participation in an art show is a course requirement.**

## COURSE TITLE

## DESCRIPTION

### DRAWING II

#### (T0620) DRAWING II

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: It is required that a student have a B average in Drawing I and receive written approval of the art teacher to take this class.

Drawing II will continue to develop drawing skills through the investigation of various drawing media. **Participation in an art show is a course requirement.**

### DRAWING III

#### (T0630) DRAWING III

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: It is required that the student maintain a B average in Drawing II and receive written approval from the art teacher in order to take this class.

Students will deepen their ability to apply visual art concepts through design, creation, and critique. Students will apply their personal style by investigating a variety of drawing media. **Participation in an art show is a course requirement.**

### PAINTING I

#### (T0611) PAINTING I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: It is required that a student maintain a B average in Art Fundamentals and receive written approval of the art teacher in order to take this class.

Painting I is designed for students who wish to develop and explore their artistic skills, talents, and creativity. Outside assignments are an integral part of the class as a high quality of work is stressed. Students will experience a variety of painting media in relation to the elements and principles of art. Students will begin to develop an art portfolio. **Participation in an art show is a course requirement.**

### PAINTING II

#### (T0621) PAINTING II

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: It is required that a student maintain a B average in Painting I and receive written approval of the art teacher in order to take this class.

Painting II will continue to develop painting skills through the investigation of various painting media. **Participation in an art show is a course requirement.**



## COURSE TITLE

## DESCRIPTION

### PAINTING III

#### **(T0631) PAINTING III**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 12

PREREQUISITE: It is required that a student maintain a B average in Painting II and receive written approval of the art teacher in order to take this class.

Students will deepen their ability to apply visual art concepts through design, creation, and critique. Students will apply their personal style by investigating a variety of painting media. **Participation in an art show is a course requirement.**

### SCULPTURE I

#### **(T0651) SCULPTURE I**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: None

Sculpture I is the prerequisite for Ceramics I. Sculpture students will be introduced to a variety of materials and techniques in the creation of 3-dimensional sculpture. The areas of carving, mold making and casting, modeling and the process of construction will be explored. Possible materials to be used are copper, plaster, paper, paper mâché, balsa foam, wire and recycled materials. **Participation in an art show is a course requirement.**

## COURSE TITLE

## DESCRIPTION

### **BUSINESS**

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### **Grade 9**

CEO Business Simulation  
Computer Skills for Success  
Internet/Web Page Design  
Introduction to Business  
Life Skills in Business

#### **Grade 10**

Accounting I  
CEO Business Simulation  
Computer Skills for Success  
Entrepreneurship  
International Business  
Internet/Web Page Design  
Introduction to Business  
Life Skills in Business  
Marketing and Sales  
The World of Fashion Merchandising

#### **Grade 11**

Accounting I  
Athletic Administration  
CEO Business Simulation  
Computer Skills for Success  
Entrepreneurship  
Future Business Leader  
Honors Accounting II  
Honors Digital Marketing  
International Business

#### **Grade 11 (continued)**

Internet/Web Page Design  
Introduction to Business  
Life Skills in Business  
Marketing & Sales  
The World of Fashion Merchandising

#### **Grade 12**

Accounting I  
Athletic Administration  
Computer Skills for Success  
Entrepreneurship  
Future Business Leader  
Honors Accounting II  
Honors Digital Marketing  
International Business  
Internet/Web Page Design  
Life Skills in Business  
Marketing & Sales  
The World of Fashion Merchandising

## COURSE TITLE

## DESCRIPTION

### ACCOUNTING I - For College Credit

**(T0701A) ACCOUNTING I A**  
**Sole Proprietorships, Partnerships, and Accounting Cycle**  
**(T0701B) ACCOUNTING I B**  
**Corporation, Taxes, Stock**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Prerequisite is completion of Algebra I or a waiver from the Algebra IB teacher and approval from the Accounting instructor.

Knowledge of accounting is beneficial to students throughout life, whether they go to college or seek employment upon graduation from high school. Basic accounting principles are applied to many personal finance activities, such as understanding how companies manage and track money, report financial earnings, prepare federal or state income tax returns, and pay employees. Accounting I is designed to help students meet two broad objectives: (1) preparation for entry into the labor force and (2) preparation for advanced study of accounting. This class is extremely hands-on, interactive, and engaging with technology.

***Ability to earn three college credits in Principles of Accounting is available.***

### ATHLETIC ADMINISTRATION

**(T0755) ATHLETIC ADMINISTRATION**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Athletics have a direct correlation on the most important game one will ever participate in – life! This course examines the relationship between athletics and being a leader as a student athlete, how to make decisions, branding yourself as a person/athlete, and how to manage and coach a winning team. Students will also participate in a sports management simulation where they will learn all aspects of running a professional sports team.

### CEO BUSINESS SIMULATION

**(T0721) CEO BUSINESS SIMULATION**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-11  
PREREQUISITE: None

During this course, students will play the role of Chief Executive Officer (CEO) and be introduced to what it is like to manage the day-to-day operations of a business. As a manager in the simulation, students will conduct all aspects of business from managing the checkbook to making deposits at the bank. They will prepare payroll and create purchase orders and item invoices. Throughout all these activities, students will be required to practice their communication skills as they interact with other businesses in the model community. **This course is a perfect complement to Introduction to Business or could be taken independently as well.**

### COMPUTER SKILLS FOR SUCCESS

**(T0770) COMPUTER SKILLS FOR SUCCESS**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

This course provides the opportunity to gain practical skills in information technology as well as the Google Suite. The course is project based focusing on developing skills and knowledge of Google apps, such as Docs, Sheets, Slides, Forms, etc. In addition, professional emailing, Google Drive organization, business letter preparation, and digital footprints will be introduced and explored.

## COURSE TITLE

## DESCRIPTION

### **ENTREPRENEURSHIP – For College Credit**

#### **(T0725) ENTREPRENEURSHIP**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

Entrepreneurship: Ideas in Action will take the student on a step-by-step journey through the entire process of owning his/her own business. The student will select a product or service to sell, determine who their customers are, learn how to market his/her business, obtain financing, manage his/her employees, and will also learn how to put together a business plan and will have created a complete plan by the completion of the course. This course is extremely hands-on, and students will work together in teams a lot to complete activities.

***Ability to earn three college credits in Entrepreneurship is available.***

### **FUTURE BUSINESS LEADER**

#### **(T0739) FUTURE BUSINESS LEADER**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

The Future Business Leader course is for students who are interested in learning about the functions of management and leadership when running a business. Students will work to develop their leadership and presentation skills while learning about management theories, functions, corporate culture, and ethical/social responsibility.

### **HONORS ACCOUNTING II – For College Credit**

#### **(T0702A) HONORS ACCOUNTING II A (T0702B) HONORS ACCOUNTING II B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: "C" or better in Accounting I

Honors Accounting II will explore the accounting field from a corporate level. Students will prepare and analyze financial statements for a corporation, analyze ratios and stocks, prepare payroll records, manage inventory, and learn how to make sound ethical and leadership decisions. If you are looking for a challenging course and want to learn more about how businesses manage their money, consider Honors Accounting II.

***Ability to earn three college credits in Financial Accounting is available.***

### **HONORS DIGITAL MARKETING**

#### **(T0738) HONORS DIGITAL MARKETING**

DETAILS: 1 Trimester  
CREDIT: .5  
GRADE LEVEL: 11-12  
PREREQUISITE: Marketing & Sales with a C or higher

Businesses are looking to meet their target markets where they are today; online. This course will focus on understanding and effectively using strategies of digital marketing. Topics covered will encompass social media marketing (Facebook, Twitter, YouTube, Snapchat), email marketing, SEO, banner ads, social media analytics, and digital branding.

By gaining an understanding of foundational concepts; creating practical, hands-on projects; and experiencing social media marketing through an online simulation, you will have a foundation to help you succeed in social media and digital marketing today and in your future.

## COURSE TITLE

## DESCRIPTION

### INTERNATIONAL BUSINESS

#### **(T0735) INTERNATIONAL BUSINESS**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

This course will introduce students to vital aspects of business in today's ever-changing world. Through discussion and application projects, we will discuss various characteristics that drive the world-wide environment of business. We will examine the flow of goods and services through a study of supply chain management and examine the importance of international business on the global economy.

### INTERNET/WEB PAGE DESIGN

#### **(T0765) INTERNET/WEB PAGE DESIGN**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9 -12  
PREREQUISITE: None

Through this hands-on course, students will explore the history of the Internet & computers, learn how to maximize Google for efficiency & collaboration, explore the world of cyber security and crime, and create professional web pages and websites using various HTML coding and online programs. The Internet is constantly changing, and this class aims to provide students with real-world knowledge and skills that can be utilized in a competitive global society.

### INTRODUCTION TO BUSINESS

#### **(T0720) INTRODUCTION TO BUSINESS**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-11  
PREREQUISITE: None

This course is an introduction to what a business is, how it operates, and how it is managed. A few of the topics that will be covered are the various types of businesses, the primary function of businesses, management techniques, and entrepreneurship. In addition, students will learn life skills as the world of business is explored. After this course students will not only be better prepared for living in today's society but will have a strong understanding of business and be prepared to take more advanced business courses.

### LIFE SKILLS IN BUSINESS

#### **(T0775) LIFE SKILLS IN BUSINESS**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

The essence of this course is preparing students to be successful in life now and upon graduation as they enter the workforce. Students will explore different career options of interest and create professional business documents such as a resume, cover letter, reference page, and digital e-portfolio. They will learn how to apply for a job and practice interviewing techniques. In addition, students will examine what it takes to be successful when beginning a new job and how to be a team-player in today's workforce. Not only will they learn about work, but we will also discuss success skills like managing money and how to use technology to their advantage. This is a course that aims to provide practical knowledge and skills that can be used immediately to succeed in today's society.

## COURSE TITLE

## DESCRIPTION

### MARKETING & SALES – For College Credit

#### (T0736) MARKETING AND SALES

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

Marketing is one of the most exciting and evolving careers in business today. This hands-on course will look at the importance of marketing in business – identifying the needs and wants of consumers, identifying target markets, and designing a plan to serve these markets. The basic concepts of marketing, including pricing, products, distribution and promotion, will be introduced and applied in various real-world projects. In addition, students will learn about the art of selling, customer service and how to develop their presentation and sales skills.

***Ability to earn three college credits in Marketing and Sales is available.***

### THE WORLD OF FASHION MERCHANDISING

#### (T0742) THE WORLD OF FASHION MERCHANDISING

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

Students will discover how the fashion industry operates from the initial design concept to the product reaching the consumer. Running a business in the fashion industry involves many different processes including researching trends, buying supplies, creating and developing new products, and promoting the products. Students will learn vital business skills while exploring each of these merchandising topics.

# CAREER, CAPSTONE, AND LEADERSHIP

## COURSE TITLE

## DESCRIPTION

### CAREER, CAPSTONE, AND LEADERSHIP

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### Grades 9

JROTC – Leadership Education I A

JROTC – Leadership Education I B

JROTC – Leadership Education I C

#### Grade 10

JROTC – Leadership Education I A

JROTC – Leadership Education I B

JROTC – Leadership Education I C

JROTC – Leadership Education II A

JROTC – Leadership Education II B

JROTC – Leadership Education II C

JROTC – Leadership Education III A

JROTC – Leadership Education III B

JROTC – Leadership Education IV A

JROTC – Leadership Education IV B

#### Grades 11 and 12

Career Internship

Teacher Assistant

#### **HACC Academy (\*\*grade 12 only)**

JROTC – Leadership Education I A

JROTC – Leadership Education I B

JROTC – Leadership Education I C

JROTC – Leadership Education II A

JROTC – Leadership Education II B

JROTC – Leadership Education II C

JROTC – Leadership Education III A

JROTC – Leadership Education III B

JROTC – Leadership Education III C

JROTC – Leadership Education IV A

JROTC – Leadership Education IV B

#### **JROTC – Leadership Education IV C (\*\*grade 12 only)**

YCST Part-Time Program

# CAREER, CAPSTONE, AND LEADERSHIP

## COURSE TITLE

## DESCRIPTION

### CAREER INTERNSHIP

#### **(T1310) CAREER INTERNSHIP**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11 and 12 only  
PREREQUISITE: None

The purpose of this offering is to provide practical non-paid/paid experience for students to explore their career goals in the workplace. Students would be responsible for establishing their own workplace internship/mentor. Once secured, students must complete paperwork through the Counseling Office. Students would be required to keep a journal and check in with an assigned school representative at least two times per trimester. Course requirements include journals and daily attendance.

### TEACHER ASSISTANT

#### **(T1309) TEACHER ASSISTANT**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11 and 12 only  
PREREQUISITE: None

This experience is designed for students who aspire to become educational professionals. Participants will assist district teachers in the classroom with teaching, grading, running errands, and other assigned projects. Students are responsible for securing their own teacher mentors. Once secured, students must complete paperwork through the Counseling Office. Course requirements include journals and daily attendance.

### HACC ACADEMY

DETAILS: 3 Trimesters  
CREDIT: 1.0, 2.0, or 3.0 depending on the program  
GRADE LEVEL: 12  
PREREQUISITE: None

Students will attend HACC Academy-York for a high school internship training program. Students may apply for a program in one of the following areas: Automotive Technology (all year), Nurse Aide (one trimester), Trade and Industrial Technology (all year), and Welding (two trimesters). A student must meet eligibility requirements, adhere to a specific dress code, and commit to regular daily attendance (12:00-4:00 p.m.)

### YCST PART-TIME PROGRAM

DETAILS: 3 Trimesters  
CREDIT: 1.5  
GRADE LEVEL: 11 and 12 (only)  
PREREQUISITE: None

Courses will run daily from 1:30-3:00 p.m. during the school year. Transportation to and from YCST will be provided. Students depart for YCST at 1:00 PM.

- Construction Technician (includes electrical, HVAC, masonry, carpentry)
- Intro to Automotive Technology
- Intro to Welding and Fabrication Technology
- Mechatronics/Industrial Controls Technology
- Nail Technology

For more information, contact the Student Services Office at YCST at 717-741-0820 extension 5112. This information and program videos are also posted on the school's website: [www.ytech.edu](http://www.ytech.edu).

Students who enroll in any of the part-time courses will follow all YCST school rules and regulations. This includes purchasing and wearing school uniforms. Uniform information is available from YCST.



# CAREER, CAPSTONE, AND LEADERSHIP

## COURSE TITLE

## DESCRIPTION

### JROTC – LEADERSHIP EDUCATION

Even though all JROTC classes are one trimester courses, taking just one course includes the student in the full year's activities of JROTC including after school activities, community service projects and parades. \*\*JROTC promotes a clean-cut appearance while in uniform. On uniform days (Thursday) male and female cadets must adhere to grooming standards which are explained in the classroom and detailed in the Cadet Handbook. Specifically, while in uniform, hair of male cadets will be tapered and not exceed 3 inches on top and facial hair (other than a neatly groomed mustache) must be clean shaven. Hair of female cadets on uniform days must be pinned and arranged so that it does not fall below the collar of the uniform being worn.

#### **(T1300A) JROTC – LEADERSHIP EDUCATION I A**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Leadership Education I A introduces both leadership and citizenship. This is accomplished by exploring where an individual gets their core values and what respect means to them. Cadets will develop an artifact using introspection on who they are both as a written essay and an oral presentation given to their class. It also exposes new cadets to personal growth and responsibility and establishes a foundation in military structure and tradition. Additionally, cadets participate in a healthy physical education program and are first exposed to the teamwork required in organized drill.

#### **T1300B) JROTC – LEADERSHIP EDUCATION I B**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: LE I A

Leadership Education I B is going to expand upon what was taught in LE I A by applying it to small leadership groups. Marine Corps History will be introduced expanding on the foundation of military structure and tradition. Drill will be expanded on to incorporate more difficult drill movements and higher level of degrees of discipline.

#### **(T1300C) JROTC – LEADERSHIP EDUCATION I C**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: LE I A

Leadership Education I C will focus on physical education, nutrition, grooming and basic first aid will be taught. Marksmanship safety and the ability to shoot air rifles will be the focus. Additionally, physical fitness outside will be on Fridays and the continuation of drill and wearing uniforms on Thursday.

# CAREER, CAPSTONE, AND LEADERSHIP

## COURSE TITLE

## DESCRIPTION

### **(T1301A) JROTC – LEADERSHIP EDUCATION II A**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: LE I A

Leadership Education II A introduces Land Navigation and more oral presentations both individual and group. We will expand on the foundation of military structure and tradition. Additionally, cadets participate in a healthy physical education program. Drill will focus on color guards and sword details, learning and then executing color guards and sword details for outside organizations.

### **(T1301B) JROTC – LEADERSHIP EDUCATION II B**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: LE I A

Leadership Education II B is going to expand upon what was taught in LE I A by applying it to small leadership groups. Marine Corps History will be introduced expanding on the foundation of military structure and tradition. Drill will be expanded on to incorporate more difficult drill movements and higher level of degrees of discipline.

### **(T1301C) JROTC – LEADERSHIP EDUCATION II C**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: LE I C

Leadership Education II C will focus on physical education, nutrition, grooming, and basic first aid will be expanded upon from LE I C. Marksmanship safety and the ability to shoot air rifles will be advanced further. Additionally, physical fitness outside will be on Fridays and the continuation of drill and wearing uniforms on Thursday.

### **(T1302A) JROTC – LEADERSHIP EDUCATION III A**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: LE I A

In Leadership Education III, cadets resume building upon subjects learned in LE I A. Focus of the course is in honing leadership skills through classroom presentations, study groups, and practical application exercises. Preparation for each cadet's post high school experience continues to be a major objective of the curriculum. The course also addresses community service, state and federal career opportunities, etiquette, personal finance, evaluating performance, and leadership styles.

### **(T1302B) JROTC – LEADERSHIP EDUCATION III B**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: LE I A

Leadership Education III B introduces Military Law and more oral presentations both individual and group. Leadership opportunities will be provided in school and outside of school to hone the skills developed in earlier courses. We will expand on the foundation of military structure and tradition. Additionally, cadets participate in a healthy physical education program. Drill will focus on squad level and platoon level military drill movements.

# CAREER, CAPSTONE, AND LEADERSHIP

## COURSE TITLE

## DESCRIPTION

### **(T1302C) JROTC – LEADERSHIP EDUCATION III C**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: LE II C

Leadership Education III C will focus on physical education, nutrition, grooming and basic first aid will be expanded upon from LE II C. Marksmanship safety and the ability to shoot air rifles will be advanced further. Additionally, physical fitness outside will be on Fridays and the continuation of drill and wearing uniforms on Thursday.

### **(T1303A) JROTC – LEADERSHIP EDUCATION IV A**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: LE I A

Cadets entrusted with Leadership Education IV will serve as mentors for cadets in previous programs. Focus of the course is in honing leadership skills through classroom presentations, study groups, oral presentations, and practical application exercises. A study of leadership styles during the Battle of Gettysburg occurs comparing and contrasting cadets' leadership styles and traits discovered in LE I A. Skills such as land navigation, marksmanship, physical training, and drill will be used to assist other cadets who are learning. Preparation for each cadet's post high school experience continues to be a major objective of the curriculum. The course also addresses community service and a book review. Extracurricular activities include marksmanship, color guards, drill, and physical training.

### **(T1303B) JROTC – LEADERSHIP EDUCATION IV B**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: LE I A

Cadets entrusted with Leadership Education IV will serve as mentors for cadets in previous programs. Focus of the course is in honing leadership skills through classroom presentations, study groups, oral presentations, and practical application exercises. A study of leadership styles during the Battle of LZ- X-Ray occurs comparing and contrasting cadets' leadership styles and traits discovered in LE I A. Skills such as land navigation, marksmanship, physical training, and drill will be used to assist other cadets who are learning. Preparation for each cadet's post high school experience continues to be a major objective of the curriculum. The course also addresses community service and a book review. Extracurricular activities include marksmanship, color guards, drill, and physical training.

### **(T1303C) JROTC – LEADERSHIP EDUCATION IV C**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: LE III C

Leadership Education IV C counts as a PE credit. Physical education, nutrition, grooming and basic first aid will be expanded upon from LE III C. Marksmanship safety and the ability to shoot air rifles will be advanced further. Additionally, physical fitness outside will be on Fridays and the continuation of drill and wearing uniforms on Thursday.

# ENGLISH

## COURSE TITLE

## DESCRIPTION

### ENGLISH

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

**The English Department recommends that students take one credit of English each year unless an English teacher recommends otherwise or there are special circumstances.**

**A student is required to take a minimum of 0.5 credits per year during the junior and senior years.**

#### **Grade 9**

\*Advanced Reading and Study Skills

English I

Honors English I

Intro to Journalism/Mass Media

\*Reading Enrichment

\*Theater Study

#### **Grade 10**

\*Advanced Reading and Study Skills

English II

Honors English II

Intro to Journalism/Mass Media

Print Journalism and Digital Media

Public Speaking

\*Reading Enrichment

\*SAT/ACT Prep

\*Theater Study

#### **Grade 11**

\*Advanced Reading and Study Skills

African American Literature

American Literature

AP English Language and Composition

British Literature

College Composition

Contemporary Literature

#### **Grade 11 (Continued)**

Creative Writing

English III

Honors African American Literature

Honors British Literature

Honors College Composition

Honors English III

Honors Mythology

Honors Plays and Playwrights

Honors Shakespeare

Introduction to Journalism/Mass Media

Mythology

Print Journalism and Digital Media

Public Speaking

\*Reading Enrichment

\*SAT/ACT Prep

Sports Literature and Writing

Technical Writing for Career Readiness

\*Theater Study

#### **Grade 12 (continued on next page)**

\*Advanced Reading and Study Skills

African American Literature

American Literature

AP English Language and Composition

AP English Literature and Composition

**\*courses do not fulfill English graduation requirements**

## COURSE TITLE

## DESCRIPTION

### ENGLISH (CONTINUED)

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

The English Department recommends that students take one credit of English each year unless an English teacher recommends otherwise or there are special circumstances.

A student is required to take a minimum of 0.5 credits per year during the junior and senior years.

#### **Grade 12 (continued)**

British Literature

College Composition

Contemporary Literature

Creative Writing

Honors African American Literature

Honors British Literature

Honors College Composition

Honors Mythology

Honors Plays and Playwrights

Honors Shakespeare

Introduction to Journalism/Mass Media

Mythology

Print Journalism and Digital Media

Public Speaking

\*Reading Enrichment

Sports Literature and Writing

Technical Writing for Career Readiness

\*Theater Study

**\*courses do not fulfill English graduation requirements**

## COURSE TITLE

## DESCRIPTION

The English Department recommends that students take one credit of English each year unless an English teacher recommends otherwise or there are special circumstances.

A student is required to take a minimum of 0.5 credits per year during the junior and senior years.

### ADVANCED READING AND STUDY SKILLS

**(T0150) ADVANCED READING AND STUDY SKILLS**  
*(\*does not satisfy English graduation requirement)*

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 9-12  
 PREREQUISITE: None

This course is designed for students reading on or above grade level (9-12+) who wish to develop college-level qualities of an effective student including flexibility in reading, stronger critical reading skills, advanced comprehension, and study skills. The first half of the trimester is dedicated to metacognition, organizational & study skills, testing strategies, and memory tools, while the second half is focused on improving academic reading fluency and efficiency. This is **not** a remedial reading class and should be considered by students who are serious about improving their existing academic success.

### AFRICAN AMERICAN LITERATURE (NCAA approved) – For College Credit

**(T0134) AFRICAN AMERICAN LITERATURE**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 11-12  
 PREREQUISITE: 9<sup>th</sup> & 10<sup>th</sup> grade English

In this survey course, students will explore diverse, often underrepresented voices that have contributed to shaping the landscape of American Literature. Beginning with a close analysis of modern works by African American authors, students will trace the origins and development of distinctly African tropes throughout the evolution of American Literature and draw connections between literary trends and lived experiences. Course requirements include reading, active participation in seminar-style class discussions, and short writing assignments.

***Ability to earn college credits in African American Literature is available.***

### AMERICAN LITERATURE (NCAA approved)

**(T0147) AMERICAN LITERATURE**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 11-12  
 PREREQUISITE: None

This course is an extension of the English III curriculum and will include the study of both classic and modern works of American literature. Students will practice analysis and interpretation of a variety of texts, including poetry, short stories, and novels. Course writings will focus on character development and analysis as well as determining and evaluating themes of major works studied. The goal of this course will be to enhance reading and interpretive skills and promote critical thinking through cooperative learning, discussion, projects, and writings. All course work centers on major life lessons of struggling characters who deal with life's dilemmas and the uncertainty of American life.

## COURSE TITLE

## DESCRIPTION

### AP ENGLISH LANGUAGE AND COMPOSITION (NCAA approved)

(T0120A) AP ENGLISH LANGUAGE AND COMP A  
(T0120B) AP ENGLISH LANGUAGE AND COMP B

DETAILS: 2 Trimesters (Trimester 1 and 2 only)  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: English II

### AP ENGLISH LITERATURE AND COMPOSITION (NCAA approved)

(T0119A) AP ENGLISH LITERATURE AND COMP A  
(T0119B) AP ENGLISH LITERATURE AND COMP B

DETAILS: 2 Trimesters (Trimester 1 and 2 only)  
CREDIT: 1.0  
GRADE LEVEL: 12  
PREREQUISITE: English III or AP Language and Composition

### BRITISH LITERATURE (NCAA approved)

(T0121) BRITISH LITERATURE

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

The AP English Language and Composition course is similar to an introductory-level college writing course. Students will read and analyze a variety of challenging nonfiction texts, examining their use of rhetorical elements and using them as models to develop their own writing style. Engaging in a multi-draft writing process that will require peer collaboration and conferencing with the teacher, students will craft evidence-based and argumentative essays. Students will evaluate sources for credibility, synthesize ideas from research, and cite sources using MLA format to support their original arguments. Proper use of conventions will be expected on all original work. Toward the end of the year on a specified date, AP English students may choose to participate in the Advanced Placement Testing Program provided by the College Board. **This course will include summer homework requirements.**

The senior AP Literature and Composition course (developed according to suggestions of the College Board) will be structured similarly to an introductory course at the college level, and college level readings will be used. The course is primarily intended for people who plan to concentrate in the humanities in college. Students will be exposed to many of the canonical classics of Western literature as well as some pieces in translation and contemporary works of high literary merit. Students will learn how to discover meaning in literature by being attentive to language, image, character, actions, arguments, and the various techniques and strategies authors use to evoke emotional responses from readers. Students will be expected to justify their interpretations by reference to details and patterns found in the text, to compare their interpretations with those proposed by others (teachers, classmates, and published literary scholars), and to be prepared to modify their own interpretations as their skills develop.

- **Students must complete summer reading with follow-up essays, and the scoring of that work will be registered as a part of the first trimester grade.**
- Toward the end of the year on a specified date, AP English students may choose to participate in the Advanced Placement Testing Program provided by the College Board.

This course is designed around the archetype of a hero and his quest. The class will read adventure stories such as *Beowulf* and *The Hobbit* and examine the hero's journey and transformation. Students will analyze steps in the journey such as why heroes are faced with challenges, how they overcome the abyss of temptations, and what it means to have mastery of two worlds. The course will include a study of vocabulary and composition based on the literature.

## COURSE TITLE

## DESCRIPTION

### COLLEGE COMPOSITION (NCAA approved)

#### (T0142) COLLEGE COMPOSITION

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Course work is aimed at preparing the students for writing at the collegiate level by studying literary models and writing college-level essays. The four required 2-to-3-page compositions follow the narrative, literary analysis, persuasive, and descriptive composition genres. The emphasis will be on developing a variety of effective techniques at each stage of the writing process, and exploring the possibilities of style, tone, and creativity of approach.

**This course is designed for juniors or seniors. The completion of four essays is course requirement.**

### CONTEMPORARY LITERATURE (NCAA approved)

#### (T0130) CONTEMPORARY LITERATURE

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

As members of this class, students will explore contemporary issues and themes as they appear in poetry, fiction, and drama. Major objectives for students in the class are as follows:

- attain a deep understanding of literary elements and their deep importance to the themes of a work
- recognize the ability of literature to convey issues and themes central to the human condition

**Students will be required to complete a comparative research project.**

### CREATIVE WRITING (NCAA approved)

#### (T0143) CREATIVE WRITING

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

This trimester course is designed to meet the needs of those students who are strong writers and wish to explore their own creative use of the written word. Students will examine different genres of writing and will work on improving their own writing conventions (mechanics and usage). Students will be expected to write and revise often and to create well-developed pieces which meet expectations based on the five areas of the Pennsylvania Writing Assessment: Focus, Content, Style, Organization and Conventions and will be required to publish those pieces orally for their class and work toward submitting pieces to publishers.

### ENGLISH I (NCAA approved)

#### (T0103A) ENGLISH I A (T0103B) ENGLISH I B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 9  
PREREQUISITE: None

This required ninth grade course uses Shakespearean drama, historical fiction, and various short stories to analyze common literary devices and apply vocabulary concepts. Students will choose both fiction and nonfiction readings that are thematically and culturally related to the core texts. Textual analysis and grammatical study will occur through writing workshops and their culminating pieces.



## COURSE TITLE

## DESCRIPTION

### **ENGLISH II** (NCAA approved)

**(T0108A) ENGLISH II A**  
**(T0108B) ENGLISH II B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10  
PREREQUISITE: English I

English II focuses on analysis and evaluation of fiction and nonfiction literature. Learners will demonstrate their ability to perform the Pennsylvania anchors using short stories, personal choice in independent reading, novel study, poetry study, and drama study. Nonfiction will be used to supplement the exploration of fiction. Learners will continue to develop their writing skills and English conventions skills. Learners will also complete major steps in career exploration and research. English II is a Keystone course.

### **ENGLISH III** (NCAA approved)

**(T0113) ENGLISH III**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11  
PREREQUISITE: English II

**A requirement for all juniors (unless the student is taking AP Language and Composition or Honors English III),** this thematic course explores how the concept of the American Dream is reflected in the writings of the 20<sup>th</sup> Century. The literature reflects the diversity of our nation and the voices that characterize what is, and has been, to be part of the American Dream. Course titles include *Of Mice and Men*, *A Raisin in the Sun*, and *The Great Gatsby* among others. In addition, students will continue to develop their skills in word study and written communication, which includes the research paper process.

### **HONORS AFRICAN AMERICAN LITERATURE**

**(NCAA approved) – For College Credit**

**(T0132) HONORS AFRICAN AMERICAN LITERATURE**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: 9<sup>th</sup> & 10<sup>th</sup> grade English

In this collegiate-level course, students will explore diverse, often underrepresented voices that have contributed to shaping the landscape of American Literature. Beginning with a close analysis of modern works by African American authors and scholars, students will trace the origins and development of distinctly African tropes throughout the evolution of American Literature and draw connections between literary trends and lived experiences. Required course assignments include reading, independent formal research & writing, and class presentations.

***Ability to earn college credits in Honors African American Literature is available.***

### **HONORS BRITISH LITERATURE** (NCAA approved)

**(T0122) HONORS BRITISH LITERATURE**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Vanity and the seven deadly sins have been major literary themes throughout the course of history. This honors-level course, intended for college bound students, will examine works of British Literature in which the main characters struggle with tragic flaws such as greed, wrath, and pride. Students will study and analyze a variety of British works by both historical significance and theme. Students will be expected to respond through writing, group discussions, and presentations to enhance their learning experience.

## COURSE TITLE

## DESCRIPTION

### HONORS COLLEGE COMPOSITION (NCAA approved) – For College Credit

#### (T0139) HONORS COLLEGE COMPOSITION

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Course work is aimed at preparing the students for writing at the collegiate level by studying literary models and writing college level essays. Among the four required 2-to-4-page compositions will be subjective and objective description, social criticism, and definition. The emphasis will be on developing a variety of effective techniques; exploring the possibilities of style, tone, and creativity of approach; and expanding the student's vocabulary through weekly word lists.

**\*The completion of four essays is a course requirement.**

***Ability to earn college credits in Honors College Composition is available.***

### HONORS ENGLISH I (NCAA approved)

#### (T0105A) HONORS ENGLISH I A (T0105B) HONORS ENGLISH I B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 9  
PREREQUISITE: None

This required ninth grade course uses Shakespearean drama, historical fiction, and various short stories to analyze common literary devices and apply vocabulary concepts. Students will choose both fiction and nonfiction readings that are thematically and culturally related to the core texts. Textual analysis and grammatical study will occur through writing workshops and their culminating pieces.

**\*The Honors course will include more intensive research components, vocabulary enrichment, and an increased level of outside reading.**

### HONORS ENGLISH II (NCAA approved)

#### (T0110A) HONORS ENGLISH II A (T0110B) HONORS ENGLISH II B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10  
PREREQUISITE: English I

English II focuses on analysis and evaluation of fiction and nonfiction literature. Learners will demonstrate their ability to perform the Pennsylvania anchors using short stories, personal choice in independent reading, novel study, poetry study, and drama study as well as multiple enrichment activities based on student interest that encourages further understanding of literature. Nonfiction will be used to supplement the exploration of fiction. Learners will continue to develop their vocabulary, writing skills, and English conventions skills. Learners will also complete major steps in career exploration and research. English II is a Keystone course.

**\*The Honors course will include multiple enrichment activities based on student interest that encourage further understanding of literature.**

### HONORS ENGLISH III (NCAA approved)

#### (T0115) HONORS ENGLISH III

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11  
PREREQUISITE: English II

This course fulfills the English III requirement for juniors and explores how the concept of the American Dream is reflected in the writings of the 20<sup>th</sup> Century. The literature reflects the diversity of our nation and the voices that characterize what is, and has been, a part of the American Dream. Students will participate in an intensive study of the characterization and theme with course titles such as *Of Mice and Men*, *A Raisin in the Sun*, and *The Great Gatsby* among others. In addition, students will continue to develop their skills with challenging word study and written communication, which includes a comprehensive research and process paper.

## COURSE TITLE

## DESCRIPTION

### **HONORS MYTHOLOGY** (NCAA approved)

#### **(T0129) HONORS MYTHOLOGY (MAN, THE JOURNEY, AND THE WILL OF THE GODS)**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

The Honors Mythology course, which centers on the mythology of the Greeks and Romans, will give the college-bound student a fundamental background to aid in the understanding of mythological allusions that continue to hold a strong place in our world's collective consciousness. The required readings, which will be extensive and intensive, will be on a college level, featuring topics such as the genesis of the classical universe, the gods and goddesses, the Trojan War, the travels of Odysseus in Homer's *Odyssey*, and the importance of Greek theater, to name a few. College-level writing skills will be required and assessed on a variety of frequent, challenging composition assignments. **The completion of three projects is a course requirement.**

### **HONORS PLAYS AND PLAYWRIGHTS** (NCAA approved)

#### **(T0124) HONORS PLAYS AND PLAYWRIGHTS**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

The course Honors Plays and Playwrights is designed for the serious drama student to study traditional and modern plays as works of literature. Students will read and analyze a variety of texts, focusing on literary elements such as mood, tone, setting, and character. Exploring various perspectives, students will determine the theme of each work, consider the historical context of the plays, and understand the overall cultural significance of each piece. Students will also study the purpose, craft, and techniques of the playwrights.

### **HONORS SHAKESPEARE** (NCAA approved)

#### **(T0133) HONORS SHAKESPEARE**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

This course offers students the opportunity to explore the lasting impact William Shakespeare continues to have on modern society. Included in this class is an examination of Shakespeare's commentary on love, trust, revenge, and human frailty. Students will also explore the Elizabethan era, theater, and language by reading plays, sonnets, and informative articles. Students should expect to be involved in a variety of activities and projects including reading, performing, designing projects, and viewing/critiquing film and/or live performances.

### **INTRO TO JOURNALISM/MASS MEDIA** (NCAA approved)

#### **(T0153) INTRO TO JOURNALISM/MASS MEDIA**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

This course is designed for the student who wants to learn the fundamentals of journalism and mass media. It offers experiences in news, feature, editorial, and sports writing as well as editing, copy reading, and layout. This course will also offer an introduction to digital journalism including photography and social media reporting.

## COURSE TITLE

## DESCRIPTION

### MYTHOLOGY (NCAA approved)

#### (T0128) MYTHOLOGY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Mythology is a survey of the major myths of Greek and Roman antiquity, including the gods, heroes, heroines, and monsters, and the stories these cultures told about them. A particular focus of the course is the legacy of mythology in modern literature, art, and popular culture, film and entertainment.

### PRINT JOURNALISM AND DIGITAL MEDIA (NCAA approved)

#### (T0159) PRINT JOURNALISM AND DIGITAL MEDIA

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Introduction to Journalism/Mass Media

Students in this course are responsible for the writing, editing, and layout for the school newspaper, *The Beacon*, and the management of the paper's online profile. Students will learn the basics of journalistic writing and will examine more closely the complexities of media law. Students should have strong writing and grammar skills as well as the ability to meet deadlines. Students may take this course more than once, but no more than .5 credits can be applied to the 4-credit English graduation requirement.

### PUBLIC SPEAKING (NCAA approved) – For College Credit

#### (T0160) PUBLIC SPEAKING

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

This course is specially designed for those intending to meet the public, pursue work in a communications field, or hone already established communication skills. Students will be required to speak extemporaneously (using notes to speak without memorizing a manuscript) in many different speaking situations and read and write about communicating effectively in a global society. Major assessments will include speaking opportunities in front of the class and also project-based opportunities, including but not limited to the development of a "TED-style" talk and speaking for special occasions. The use of technology will be an integral component of the course, as speaking skills for the 21<sup>st</sup> century will be emphasized.

***Ability to earn college credits in Public Speaking is available.***

### READING ENRICHMENT

#### (T0158) READING ENRICHMENT (\*does not satisfy English graduation requirement)

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

This course is designed for students who are interested in improving their basic reading and comprehension skills. Students will learn reading strategies to practice while reading a variety of literary types. These strategies include independent reading, critical thinking, vocabulary study, guided reading instruction, word study, and analysis and interpretation of literature. *This course is not designed for students reading at or above grade level.*

## COURSE TITLE

## DESCRIPTION

### SAT/ACT PREP

#### **(T1390) SAT/ACT PREP**

*(\*does not satisfy English graduation requirement)*

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 10-11

PREREQUISITE: Algebra II and/or Geometry

### SPORTS LITERATURE AND WRITING (NCAA

approved)

#### **(T0145) SPORTS LITERATURE AND WRITING**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: None

### TECHNICAL WRITING FOR CAREER

#### READINESS

#### **(T0152) TECHNICAL WRITING FOR CAREER READINESS**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: None

### THEATER STUDY

#### **(T0165) THEATER STUDY**

*(\*does not satisfy English graduation requirement)*

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: None

This one trimester course is for students planning to attend college and will examine strategies for scoring higher on the PSAT, SAT, and ACT. A strong command of the English language and a completion of any Algebra II and/or Geometry course are needed. College planning and scholarships will also be explored.

The course is designed to introduce and provide workshop experience for students interested in sports journalism and literature. Students will examine the relationship between sports and society through literature by contemporary authors and columnists as well as other media. In order to grasp a deeper understanding of sports as a whole, students will also conduct and create research-based papers in an academic format and style. Students will be expected to write and edit both independently and with supervision, and they must be prepared to study the work of professional sports writers. Text selections will include a survey of novels, biographies, short stories, essays, newspaper columns, magazine articles, podcasts, and other media.

This course offers personalized reading and writing opportunities to match a student's career interests. Reading includes deciphering and analyzing career-related documents in addition to analyzing nonfiction texts. Writing, speaking, and listening components focus on communication necessary for success in a variety of workplace settings. Writing assessments include but are not limited to career research and exploration of informational topics as well as writing various types of letters, emails, memos, etc. Students will practice effective presentation skills, such as speaking effectively and developing and using visual aids for a professional setting.

In this course students will examine the history of drama, which will be viewed as a literary genre, and analyze all production components. The first half of the course is devoted to studying the backstage roles involved with live and filmed theatrical performance. In the second half of the course, students will focus on the art of acting and other modes of performance, analyze scripts, participate in group plays and impromptu skits, write critical reviews, and demonstrate polished acting skills through a required final exam monologue. Theater Study students are expected to participate in at least one school or community production outside of class.

# FAMILY AND CONSUMER SCIENCE

**COURSE TITLE**

**DESCRIPTION**

## FAMILY AND CONSUMER SCIENCE

**Grade 11**

Child Care and Development I

**Grade 12**

Child Care and Development I

Child Care and Development II

# FAMILY AND CONSUMER SCIENCE

## COURSE TITLE

## DESCRIPTION

### CHILD CARE AND DEVELOPMENT I

**(T0811A) CHILD CARE AND DEVELOPMENT I A**  
**(T0811B) CHILD CARE AND DEVELOPMENT I B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: None

### CHILD CARE AND DEVELOPMENT II

**(T0812A) CHILD CARE AND DEVELOPMENT II A**  
**(T0812B) CHILD CARE AND DEVELOPMENT II B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 12  
PREREQUISITE: It is required that a student receive a B average in Child Care and Development I and approval of instructor in order to take this course.

The purpose of this course is for students to develop knowledge and skills in areas of child development from conception to age five. Students who have career interests in teaching and/or health care will benefit from this course as well as students looking to develop skills for their future role as a parent. Part of the class will consist of students running and operating a preschool laboratory.

The application of the principles of child care learned in Child Care and Development I will be applied in Child Care and Development II through the operation of a children's preschool laboratory. Three- and four-year-old children will be selected from the community for a preschool experience. Students will be involved in planning, teaching, observation, and research activities with the preschool. There will be an off-site observation conducted in a local preschool/daycare program. Techniques for effective child care will be practiced and evaluated in relation to parenting and possible careers.

# GIFTED SERVICES

## COURSE TITLE

## DESCRIPTION

### GIFTED SEMINAR

#### (T1270) GIFTED SEMINAR

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: Identified Gifted

This course is offered to students identified as mentally gifted in accordance with the Pennsylvania Department of Education's Chapter 16 Guidelines. Classwork engages students with self-selected content to develop foundational skills for connected independent research, collaborative teamwork, and communication skills. This course is a one-trimester course that earns .5 credit upon completion



# HEALTH AND PHYSICAL EDUCATION

## COURSE TITLE

## DESCRIPTION

### HEALTH AND PHYSICAL EDUCATION

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

\*Any Band/Orchestra/Chorus student may take physical education which will meet two days of the six-day cycle for the entire school year. (Students will participate in a variety of activities.) Students will be awarded .5 credit for the year-long course.

#### **Grade 9**

Anatomy and Physiology I A

Anatomy and Physiology I B

Honors Anatomy and Physiology I A

Honors Anatomy and Physiology I B

#### **Health courses:**

- Personal Health
- Personal Health – Cyber

#### **Physical Education course:**

- Freshman Physical Education

#### **Grade 10, Grade 11, and Grade 12**

Anatomy and Physiology I A

Anatomy and Physiology I B

Anatomy and Physiology II C

Anatomy and Physiology II D

Honors Anatomy and Physiology I A

Honors Anatomy and Physiology I B

Honors Anatomy and Physiology II C

Honors Anatomy and Physiology II D

#### **Health courses:**

- First Aid/CPR and Athletic Training
- Personal Health
- Personal Health - Cyber

#### **Physical Education elective courses:**

- Couch to 5K
- Fall Lifetime Sports
- Fitness Activities
- International Games
- Spring Lifetime Sports
- Strength Training
- Water Sports and Water Safety
- Winning the Battle Using Fitness & Nutrition
- Winter Lifetime Sports

# HEALTH AND PHYSICAL EDUCATION

## COURSE TITLE

## DESCRIPTION

### ANATOMY AND PHYSIOLOGY I A

**Musculoskeletal A & P with Introductory Terminology** (NCAA approved)

(T0960A) ANATOMY AND PHYSIOLOGY I A

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### ANATOMY AND PHYSIOLOGY I B

**All About Tissues with Cardiovascular A & P**  
(NCAA approved)

(T0960B) ANATOMY AND PHYSIOLOGY I B

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### ANATOMY AND PHYSIOLOGY II C

**How do we move? Our electrical system**  
**Muscle and Nervous A & P** (NCAA approved)

(T0962C) ANATOMY AND PHYSIOLOGY II C

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

### ANATOMY AND PHYSIOLOGY II D

**Digestion and Metabolism, Nephrology**  
**and Embryology** (NCAA approved)

(T0962D) ANATOMY AND PHYSIOLOGY II D

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include bones, parts of bones, joint structure, muscles, origin and insertion and function of muscles.

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include anatomy and physiology of all the different tissues in the body-specifically the heart and Respiratory systems. **Students are expected to participate in a Cat Dissection.**

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include Organization and Functionality of Nervous Tissue (Central, Peripheral, Autonomic Nervous Systems and Special Senses), Muscle Histology and Contractility. **The students do participate in a Sheep Brain Dissection.**

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include Digestive System (Metabolism), Nephrology, and Embryology. **Students are expected to participate in a Pig Kidney and Cat Dissection.**

# HEALTH AND PHYSICAL EDUCATION

## COURSE TITLE

## DESCRIPTION

### **HONORS ANATOMY AND PHYSIOLOGY I A**

**Musculoskeletal A & P with Introductory Terminology** (NCAA approved)

**(T0961A) HONORS ANATOMY AND PHYSIOLOGY I A**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### **HONORS ANATOMY AND PHYSIOLOGY I B**

**All About Tissues with Cardiovascular A & P** (NCAA approved)

**(T0961B) HONORS ANATOMY AND PHYSIOLOGY I B**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### **HONORS ANATOMY AND PHYSIOLOGY II C**

**How do we move? Our Electrical System Muscle and Nervous A & P** (NCAA approved)

**(T0963C) HONORS ANATOMY AND PHYSIOLOGY II C**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

### **HONORS ANATOMY AND PHYSIOLOGY II D**

**Digestion and Metabolism, Nephrology and Embryology** (NCAA approved)

**(T0963D) HONORS ANATOMY AND PHYSIOLOGY II D**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include bones, parts of bones, joint structure, muscles, origin and insertion and function of muscles. **Students will be expected to be involved in an enrichment program of study in addition to the coursework.**

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include anatomy and physiology of all the different tissues in the body-specifically the heart and Respiratory systems. **Students are expected to participate in a Cat Dissection. The students will be expected to be involved in an enrichment program of study in addition to the coursework.**

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include Organization and Functionality of Nervous Tissue (Central, Peripheral, Autonomic Nervous Systems and Special Senses), Muscle Histology and Contractility. **The students do participate in a Sheep Brain Dissection. The students will be expected to be involved in an enrichment program of study in addition to the coursework.**

This is a specialized study of the structural and functional relationship of the human body in health areas and careers allied to medicine. Topics include Digestive System (Metabolism), Nephrology, and Embryology. **Students are expected to participate in a Pig Kidney and Cat Dissection. The students will be expected to be involved in an enrichment program of study in addition to the coursework.**

# HEALTH AND PHYSICAL EDUCATION

## COURSE TITLE

## DESCRIPTION

### HEALTH COURSES:

#### FIRST AID/CPR AND ATHLETIC TRAINING – For College Credit

##### **(T0972) FIRST AID/CPR AND ATHLETIC TRAINING**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

The aim of this course is to provide students with a hands-on approach to first aid and CPR with an emphasis on athletic training. All students will have the opportunity to obtain a Red Cross certification in First Aid and CPR.

### PERSONAL HEALTH

##### **(T0970) PERSONAL HEALTH**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

The aim of health education is to assist the student in gaining an intelligent understanding of the human body and mind in order to maintain good health. At the same time, the goal is the coupling of the student's knowledge with a desire to achieve the highest degree of physical and mental fitness.

**This course is a graduation requirement.**

### PERSONAL HEALTH - CYBER

##### **(TCO970) PERSONAL HEALTH - CYBER**

DETAILS: Year long  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

The aim of health education is to assist the student in gaining an intelligent understanding of the human body and mind in order to maintain good health. At the same time, the goal is the coupling of the student's knowledge with a desire to achieve the highest degree of physical and mental fitness. The "cyber" option is perfect for the tech-savvy student that wants to free up their course schedule. This course will run year-long (0.5 credit). Selecting this course does not count against a student's 7.5 allowed credits per year. **Personal Health is a graduation requirement.**

### PHYSICAL EDUCATION (REQUIRED):

#### FRESHMAN PHYSICAL EDUCATION

##### **(T0953) FRESHMAN PHYSICAL EDUCATION**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9  
PREREQUISITE: None

**Description:** This course is required for all freshmen as a graduation requirement\*. It includes the basic tools needed to successfully begin to create a Lifetime Fitness Plan. Fitness concepts will be applied to and practiced in a variety of units. Activities could vary depending on the trimester the course is scheduled. All Freshmen must take this course before taking any other PE class. \*Students may be exempt from Freshman PE if they take two JROTC courses. They still need 1.5 PE credits to graduate.

# HEALTH AND PHYSICAL EDUCATION

## COURSE TITLE

## DESCRIPTION

### PHYSICAL EDUCATION ELECTIVES:

#### COUCH TO 5K

##### (T0956A) COUCH TO 5K

DETAILS: 1 Trimester (**Trimester 1 or 3 only**)  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

#### FALL LIFETIME SPORTS

##### (T0956B) FALL LIFETIME SPORTS

DETAILS: 1 Trimester (**Trimester 1 only**)  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

#### FITNESS ACTIVITIES

##### (T0956C) FITNESS ACTIVITIES

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

#### INTERNATIONAL GAMES

##### (T0956D) INTERNATIONAL GAMES

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

#### SPRING LIFETIME SPORTS

##### (T0956E) SPRING LIFETIME SPORTS

DETAILS: 1 Trimester (**Trimester 3 only**)  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

**Description:** This course is meant for the student wanting to challenge themselves to increase their running ability. The course will progress slowly with the ultimate goal of running a complete 5K (3.1 miles) by the end of the trimester. This course will also include strength training and flexibility components for enhanced performance.

Ultimate Frisbee, Volleyball, Basketball, Flag Football, Golf, Disc Golf, Soccer, Tennis, Badminton

**Description:** This course will allow students to learn and participate in both individual and team lifetime activities that can be enjoyed for years and years to come.

Yoga, Cross-Fit, Pilates, Exercise Balls, Cardio, Strength Training or Weight Room

**Description:** If you are looking for a strength, flexibility, and fitness-based course that will help you tone your muscles as well as increase your "core" strength, this class is for you. Total body fitness will be developed through the practice of the five components of fitness.

Tchoukball, Sabaki ball, Bocce, Handball, Badminton, Floor Hockey, Speedball, Cricket

**Description:** This course will allow students to learn and participate in various international activities/games that are enjoyed throughout the world. \*Activities could vary depending on the trimester that the course is scheduled.

Tennis, Volleyball, Softball, Ultimate Frisbee, Soccer, Floor Hockey, Cricket, Disc Golf

**Description:** This course will allow students to learn and participate in both individual and team lifetime activities that can be enjoyed for years and years to come.

# HEALTH AND PHYSICAL EDUCATION

## COURSE TITLE

## DESCRIPTION

### STRENGTH TRAINING

#### **(T0956F) STRENGTH TRAINING**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

### WATER SPORTS AND WATER SAFETY

#### **(T0956H) WATER SPORTS AND WATER SAFETY**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

### WINNING THE BATTLE USING FITNESS AND NUTRITION

#### **(T0956I) WINNING THE BATTLE USING FITNESS AND NUTRITION**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

### WINTER LIFETIME SPORTS

#### **(T0956J) WINTER LIFETIME SPORTS**

DETAILS: 1 Trimester (**Trimester 2 only**)  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Freshman Physical Education

Traditional weight training, speed and agility, plyometric, cross training.

**Description:** Based in the Wildcat Weight room, students will learn basic and complex strength and conditioning principals and techniques. Student goals will be used to develop and implement individualized work out programs. Periodic assessment of goal improvement is a key component. This is a great fitness-based opportunity where students who want to work independently thrive.

Lifeguarding skills, swimming fitness, survival techniques, water polo, safe boating/kayaking skills, and water workouts

**Description:** This course will allow students to participate in various water activities that will increase fitness levels and knowledge of water skills. Students enrolling in this class should have intermediate swimming skills. Potential certifications in lifeguarding and boating safety accompany this course.

This course will combine nutrition and fitness principles to help overall student health. This course will incorporate both classroom study and physical activity components, both of which will be graded aspects of the class. The intention of this course is to show students, through active participation, that they can take control over both their fitness and weight through nutrition and exercise. This course will count toward the physical education requirement for graduation.

Badminton, Pickle Ball, Ping Pong, Archery, Volleyball, Basketball, Floor Games

**Description:** This course will allow students to learn and participate in both individual and team lifetime activities that can be enjoyed for years and years to come.

# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

### MATHEMATICS

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### **Grade 9**

Algebra I

Algebra II

AP Statistics

Computer Programming I

Honors Algebra II

#### **Grade 10**

Academic Algebra II

Academic Geometry

Algebra I

Algebra II

AP Computer Science Principles

AP Statistics

Computer Programming I

Computer Programming II

Geometry

Honors Algebra II

Honors Geometry

SAT/ACT Prep

#### **Grade 11**

Academic Algebra II

Academic Geometry

Algebra II

AP Computer Science

AP Computer Science Principles

AP Statistics

Computer Programming I

Computer Programming II

#### **Grade 11 (continued)**

Cryptography

Geometry

Honors Geometry

Honors Precalculus

Precalculus

Probability & Statistics

SAT/ACT Prep

Tech Prep Math

#### **Grade 12**

Academic Algebra II

Academic Geometry

Algebra II

AP Calculus AB

AP Calculus BC

AP Calculus Extensions

AP Computer Science

AP Computer Science Principles

AP Statistics

Calculus

College Prep Math

Computer Programming I

Computer Programming II

Cryptography

Geometry

Precalculus

Probability & Statistics

Tech Prep Math

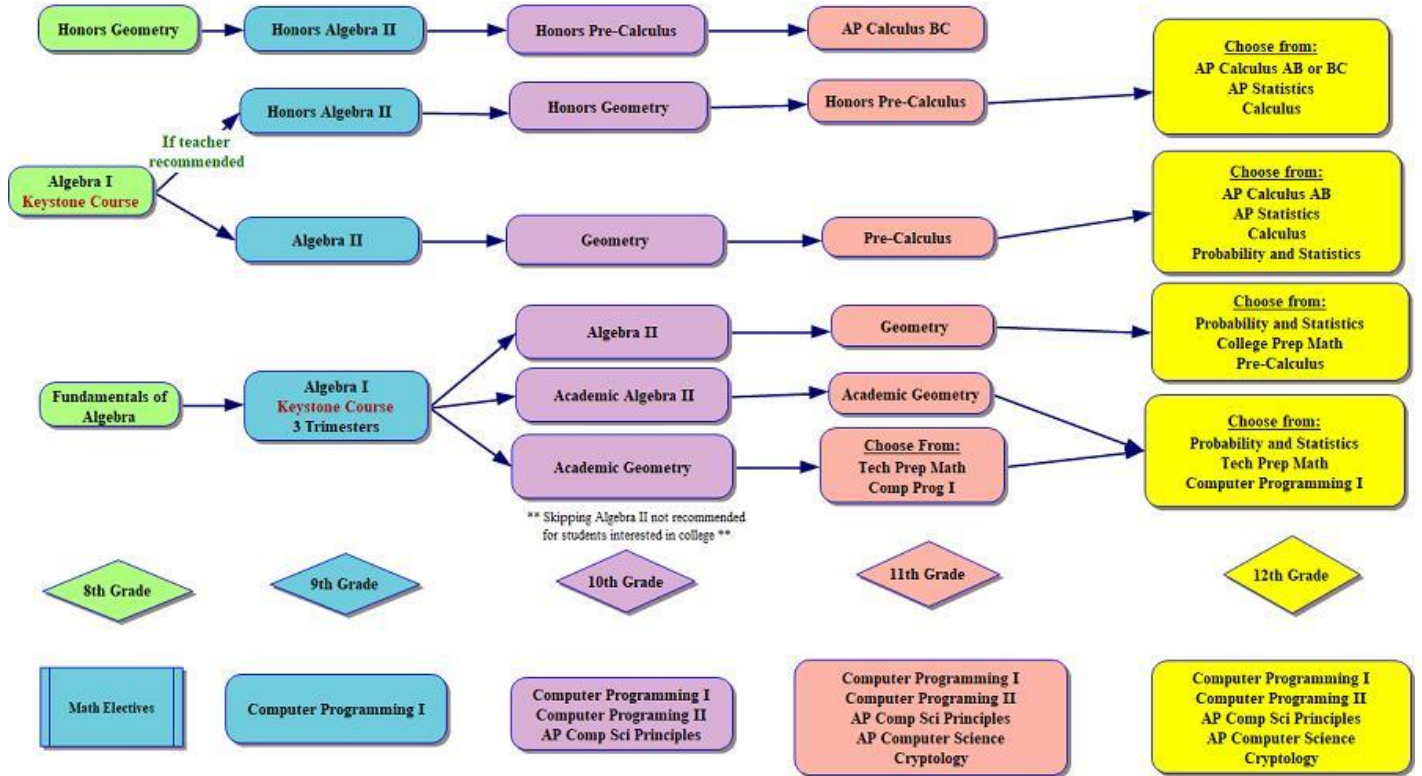
# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

*DAHS Mathematics Course Progression Chart*

The following chart represents the natural progression of math courses that can be taken assuming that the student is meeting with success in their current math course. Teachers will recommend the next math course students should take based on this performance. At least 3 high school math credits must be obtained, including both Algebra and Geometry to be able to graduate. *Computer Programming I, Computer Programming II, AP Computer Science, AP Computer Science Principles, and Cryptology are elective options.*  
**\*\*Cryptology is not eligible for mathematics credit towards graduation\*\***



Note: These are guidelines for scheduling purposes. Teachers provide the recommendations and guidance for individual students on course selections.



# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

### **ACADEMIC ALGEBRA II** (NCAA approved)

(T0414A) ACADEMIC ALGEBRA II A  
(T0414B) ACADEMIC ALGEBRA II B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra I

This two-trimester course covers the topics of linear equations, quadratic equations, higher order equations, and exponential and logarithmic equations. This is a practical approach to solving various equations. Students enrolling in this course will be exposed to Algebra II topics included on the SAT and ACT.

### **ACADEMIC GEOMETRY** (NCAA approved)

(T0424A) ACADEMIC GEOMETRY A  
(T0424B) ACADEMIC GEOMETRY B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra I

This two trimester course studies the characteristics of plane and solid figures. Topics include basics of geometry, reasoning and proof, parallel and perpendicular lines, congruent triangles, polygons, similarity, right triangles, trigonometry, circles, circumference, area, volume and geometric probability.

### **ALGEBRA I** (NCAA approved-1 credit max)

(T0410A) ALGEBRA I A  
(T0410B) ALGEBRA I B  
(T0410C) ALGEBRA I C

DETAILS: 3 Trimesters  
CREDIT: 1.5  
GRADE LEVEL: 9-10  
PREREQUISITE: None

Topics covered in this course include: analyzing linear relationships, graphing linear equations and inequalities, factoring polynomials, simplifying rational expressions, solving systems of two linear equations and inequalities, and simplify expression containing exponents and square root radicals. It will also prepare students to take the Pennsylvania Keystone Algebra I Exam by covering all of the Algebra I Keystone Standards.

### **ALGEBRA II** (NCAA approved)

(T0415A) ALGEBRA II A  
(T0415B) ALGEBRA II B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 9-12  
PREREQUISITE: Algebra I

Topics covered in this course include: linear functions, quadratic and higher degree polynomial functions, powers and roots, exponential and logarithmic functions, and rational functions. The emphasis is more on application and less on theory. The students enrolling in this course should be considering a four-year college program. This course is recommended for students who plan on taking Precalculus in the future.

# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

### AP CALCULUS AB (NCAA approved)

(T0440A) AP CALCULUS AB A  
(T0440B) AP CALCULUS AB B

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 12  
PREREQUISITE: Honors Precalculus or Precalculus  
(suggested grade: A)

### AP CALCULUS BC (NCAA approved)

(T0441A) AP CALCULUS BC A  
(T0441B) AP CALCULUS BC B

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 12  
PREREQUISITE: Honors Precalculus (suggested  
grade: A or B).

### AP CALCULUS EXTENSIONS

(T0443) AP CALCULUS EXTENSIONS

DETAILS: 1 Trimester (**Trimester 3 only**)  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: Students must be taking AP Calculus

### AP COMPUTER SCIENCE (NCAA approved) – **For College Credit**

(T0452A) AP COMPUTER SCIENCE A  
(T0452B) AP COMPUTER SCIENCE B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: Computer Programming II or Teacher  
Approval

This course fulfills the requirements set forth by The College Board. Topics covered include: limits and continuity, differential Calculus and integral Calculus. In May students take the Advanced Placement test. A graphing calculator is required.

This course fulfills the requirements set forth by The College Board. Topics covered include: differential Calculus, integral Calculus, sequences and series, and parametric and polar functions. Also covers all topics in AP Calculus AB. In May students take the Advanced Placement test. A graphing calculator is required. **Summer work is a requirement for this course.**

This optional course is an extension of AP Calculus AB and AP Calculus BC. This course will further prepare students for the AP Calculus test in topics including limits and continuity, differential Calculus and integral Calculus, sequences and series, and parametric and polar functions. After the AP test, students will explore applications of Calculus in the real world.

This course fulfills the requirements set forth by The College Board. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language.

# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

### **AP COMPUTER SCIENCE PRINCIPLES** (NCAA approved) – For College Credit

**(T0453A) AP COMPUTER SCIENCE PRINCIPLES A**  
**(T0453B) AP COMPUTER SCIENCE PRINCIPLES B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Computer Programming I or Teacher Approval

AP Computer Science Principles will allow students to develop computational thinking vital for success across all disciplines. This course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and think creatively while using technology to explore questions that interest them. Students will also solve problems that impact their community, society, and the world.

### **AP STATISTICS** (NCAA approved) – For College Credit

**(T0445A) AP STATISTICS A**  
**(T0445B) AP STATISTICS B**

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 9-12  
PREREQUISITE: Algebra II or concurrently enrolled in Honors Algebra II

This course fulfills the requirements set forth by The College Board. Its purpose is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The AP Statistics course is effective preparation for college majors such as social sciences, health science, business, science, engineering, and mathematics. The topics for AP Statistics are divided into four major themes: exploratory analysis, planning and conducting a study, probability, and statistical inference. A College Board approved calculator is required. *A TI-84 Plus graphing calculator is recommended.*

### **CALCULUS** (NCAA approved)

**(T0437) CALCULUS**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: Precalculus

This one trimester course covers the topics of limits, derivatives, and integration of non-transcendental functions. The course will not prepare a student for the AP exam.

### **COLLEGE PREP MATH** (NCAA approved)

**(T0433) COLLEGE PREP MATH**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: Algebra II and Geometry

College Prep Math is a problem-solving course designed to prepare the non-math major students for higher level math education. College Preparatory topics include Logic, Sets and Counting Principles, Geometry, Finance, Algebraic topics include Exponential and Logarithmic Functions, Number Systems and Matrices and Fundamental Right Triangle Trig. Each of these topics is addressed independently of the other; thereby, allowing students to explore many differing ideas as they relate to mathematics. Through this course, students will be able to identify their individual mathematical areas of expertise, allowing them to make better choices for themselves at the college level.

# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

### COMPUTER PROGRAMMING I

#### (T0450) COMPUTER PROGRAMMING I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: Algebra I

This course is designed to expose students to a hands-on sampling of computer programs to introduce coding and game design. Using Object Oriented Programming (OOP) students will explore KODU, ALICE, and Java using the NetBeans IDE.

### COMPUTER PROGRAMMING II

#### (T0451) COMPUTER PROGRAMMING II

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Completion of Computer Programming I or Teacher Approval

This course will take a formal approach to programming. Using NetBeans or Eclipse, students will explore the basic concepts of coding in Java. Programming concepts include variables, inputs/outputs, procedures, functions, conditionals, classes, objects, arrays, and loops, among others.

### CRYPTOLOGY (NCAA approved)

#### (T0456) CRYPTOLOGY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Algebra I, Algebra II, Geometry

This course will expose students to the history of Cryptology and guide them through making and breaking ciphers. Monoalphabetic as well as polyalphabetic encryption and decryption will be explored via their historical contexts, from Ancient Greece through World War II and beyond.

### GEOMETRY (NCAA approved)

#### (T0425A) GEOMETRY A (T0425B) GEOMETRY B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra I

This course studies the characteristics of plane and solid figures with a more intuitive approach to proofs. Topics include basics of geometry, reasoning and proof, parallel and perpendicular lines, transformations, congruent triangles, polygons, similarity, right triangles, trigonometry, circles, circumference, area, volume and geometric probability.

\*\*This course is designed for students planning on a post-secondary experience focusing on science, technology, engineering and/or mathematics.

# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

### **HONORS ALGEBRA II** (NCAA approved)

**(T0417A) HONORS ALGEBRA II A**  
**(T0417B) HONORS ALGEBRA II B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 9-10  
PREREQUISITE: Honors Algebra I or Algebra I  
(suggested grade: A)

Topics covered in this course include: systems of three equations, quadratic and higher degree polynomial functions, powers and roots, exponential and logarithmic functions, rational functions, and conic sections. This is a rigorous, theoretical course and moves at a faster pace. A solid understanding and thorough recall of Algebra I concepts, previously learned, is expected and necessary to be successful in this course.

### **HONORS GEOMETRY** (NCAA approved)

**(T0427A) HONORS GEOMETRY A**  
**(T0427B) HONORS GEOMETRY B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10-11  
PREREQUISITE: Honors Algebra II or Algebra II  
(suggested grade: A)

This course studies the characteristics of plane and solid figures with a very in-depth approach to proofs. This is a rigorous theoretical course and moves at a faster pace. Students will be expected to create their own diagrams to prove theorems and add auxiliary lines to solve problems.

### **HONORS PRECALCULUS** (NCAA approved)

**(T0436A) HONORS PRECALCULUS A**  
**(T0436B) HONORS PRECALCULUS B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 11  
PREREQUISITE: Honors Algebra II and Honors Geometry.

This course includes a theoretical approach to the concepts covered in a Precalculus course. Topics include trigonometry, exponential, polynomial, rational and logarithmic functions, parametric and polar equations, and limits. A graphing calculator is required.

### **PRECALCULUS** (NCAA approved)

**(T0435A) PRECALCULUS A**  
**(T0435B) PRECALCULUS B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: Algebra II and Geometry

This course includes a theoretical approach to the concepts covered in a Precalculus course. Topics include trigonometry, exponential, and logarithmic functions, polynomial and rational functions. A graphing calculator is recommended but not required.

# MATHEMATICS

## COURSE TITLE

## DESCRIPTION

### **PROBABILITY & STATISTICS** (NCAA approved)

#### **(T0460) PROBABILITY & STATISTICS**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Algebra I and Geometry

This course will provide students with a practical introduction to the highlights of descriptive statistics, including data production and probability. A major goal of this course will be to make students statistically literate so they can decide if graphs and statistical values that they see in various media are valid. This course will make extensive use of the TI-84 statistical graphing calculators, enabling focus to be more on interpreting statistics rather than doing computations. It is designed to support students in their preparation for postsecondary statistics course offerings in a variety of majors.

### **SAT/ACT PREP**

#### **(T1390) SAT/ACT PREP**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-11  
PREREQUISITE: Algebra II and/or Geometry

This one trimester course is for students planning to attend college and will examine strategies for scoring higher on the PSAT, SAT and ACT. A strong command of the English language and a completion of any Algebra II and/or Geometry course are needed. College planning and scholarships will also be explored.

This course should be selected from the English Department.

### **TECH PREP MATH**

#### **(T0430) TECH PREP MATH**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Algebra I and Geometry

This course introduces a wide variety of practical math topics to prepare students for a range of careers. Topics will include understanding statistics, unit analysis, quality control testing, and number sense. Students will explore how these math skills fit into a variety of jobs so they can be better prepared to enter the workforce after high school.

# PERFORMING ARTS

## COURSE TITLE

## DESCRIPTION

### PERFORMING ARTS

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### Grade 9

Audio Engineering

Concert Choir (Boys only)

Girls Chorus

Guitar

Keyboarding I

Music History

Music Theory I

Musical Theater

Orchestra

Symphonic Band

Voice I

#### Grades 10, 11, 12

Audio Engineering

Concert Choir

Girls Chorus

Guitar

Keyboarding I

Keyboarding II

Music History

Music Theory I

Music Theory II

Musical Theater

Orchestra

Symphonic Band

Voice I

Voice II

# PERFORMING ARTS

## COURSE TITLE

## DESCRIPTION

**PERFORMANCE ENSEMBLES...** Concert Choir, Orchestra, and Symphonic Band are scheduled across all 3 trimesters. These performance ensemble classes will be scheduled simultaneously during the same period. Students can be in multiple ensembles through shared enrollment.

## Music - Performance Groups

**As a performing arts student, please select your performance group or a combination of performance groups.**

**Please select your options below to equal 6 days per cycle (totaling 1.5 credits).**

**Please see your performing arts teacher for guidance in selecting courses.**

### Instructions:

- Students in **One** ensemble should select the Four Day (1.0 credit) or Six Day (1.5 credit) course
- Students in **Two** ensembles may select the Two Day or Three-day course (Exception for Brass/Woodwind/Percussion Musicians in Orchestra)
- \* Students in **Symphonic Orchestra & Band** should select Symphonic Orchestra One Day (T1054E) & Symphonic Band Three Days (T1051B)

Code	Course Name	Credit
T1054	Orchestra Major Six Days	1.5
T1054A	Orchestra Four Days	1
T054B	Orchestra Three Days (Chorus)	.75
T1054C	Orchestra Three Days (Band)	.75
T1054D	Orchestra Two Days	.5
T1054E	Symphonic Orchestra One Day	.25
T1051	Symphonic Band Major Six Days	1.5
T1051A	Symphonic Band Four Days	1
T1051B	Symphonic Band Three Days (Symphonic Orchestra)	.75
T1051C	Symphonic Band Three Days (Orchestra)	.75
T1051D	Symphonic Band Three Days (Choir)	.75
T1051E	Symphonic Band Two Days	.5
T1053	Concert Choir Major Six Days	1.5
T1053A	Concert Choir Four Days	1
T1053B	Concert Choir Three Days (Band)	.75
T1053C	Concert Choir Three Days (Orchestra)	.75
T1053D	Concert Choir Two Days	.5

**If you are a performing arts student who is participating in music 4 days per cycle, please select one of these electives to earn the necessary credit (1.5). If you select study hall, your credit may total 1.0 credit.**

Code	Course Name	Credit
TCO0657A	Cyber Art History	.5
TCO0658A	Cyber Digital Arts	.5
TCO1055A	Cyber Music Theory I	.5
TCO0225A	Cyber Personal Financial Literacy	.5
TCO0240A	Cyber Psychology	.5
T1300APA	JROTC LEIA	.5
T1309B	Teacher Assistant (Juniors and Seniors ONLY)	.5
T1270A	Gifted Seminar	.5
T0956N	Physical Education	.5
TCO0970A	Personal Health – Cyber	.5
T1400D	Study Hall for Music Students	.5



# PERFORMING ARTS

## COURSE TITLE

## DESCRIPTION

### CONCERT CHOIR

#### CONCERT CHOIR GROUPS (see chart on page 56)

DETAILS: 3 Trimester grouping  
CREDIT: 1.0-1.5 (for Performing Arts Group)  
GRADE LEVEL: 9-12/boys, 10-12/girls  
PREREQUISITE: An audition and/or teacher recommendation is needed for this course.

### ORCHESTRA

#### ORCHESTRA GROUPS (see chart on page 56)

DETAILS: 3 Trimester grouping  
CREDIT: 1.0-1.5 (for Performing Arts Group)  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### SYMPHONIC BAND

#### SYMPHONIC BAND GROUPS (see chart on page 56)

DETAILS: 3 Trimester grouping  
CREDIT: 1.0-1.5 (for Performing Arts Group)  
GRADE LEVEL: 9-12  
PREREQUISITE: An audition and/or teacher recommendation is needed for this course.

The Concert Choir is offered to female students in grades 10 through 12 and boys in grades 9 through 12 who have auditioned and have been accepted into the chorus. Music of many different styles and time periods will be performed in several concerts per year. Concert Choir students will attend one sectional during the Wildcat Period every six-day cycle. **Attendance at all performances is required.** Grading in Concert Choir is based on a combination of class participation, attendance, sectional grades and individual singing grades.

Orchestra is an elective course open to any string player. One class per cycle will be designated as a string rehearsal and one as a full orchestra rehearsal including strings, winds, brass, and percussion. The orchestra will explore music from all the periods of music from Baroque to the 20<sup>th</sup> century. All string students will attend one string sectional during the Wildcat Period every six-day cycle. The orchestra performs a fall concert in November, a holiday concert in December, and the Spring String Festival and Spring Orchestra Concert in May. The Orchestra also participates in the Graduation Commencement in early June.

**Attendance at all performances is required. All exact concert dates may be found on the school calendar.** Grading in orchestra is based on a combination of participation, attendance, group performance, and individual playing grades.

**\*\*ALL WINDS, BRASS, AND PERCUSSION STUDENTS will be subject to audition. All winds, brass, and percussion students must be part of the performing arts rehearsal schedule and must be in the band program.**

Symphonic Band is an elective course open to students who have experience and skill on wind instruments, percussion instruments or the string bass, which are common to the instrumentation of today's modern symphonic or marching bands. Music of various periods and styles are introduced and performed by the band. This is an academic class in which membership is considered a co-curricular organization that includes many rehearsals and performances outside of the regular school day. The band class includes one sectional during the Wildcat Period every six-day cycle.

**Attendance at all performances and rehearsals is required.** Grading is based on a combination of participation, attendance, group performance and individual playing grade.

**Membership in band includes participation in our marching band. There will be *no exceptions*. If you elect to take band, it is required that you must attend band camp, which is annually held the two full weeks prior to the start of school. Failure to attend band camp can lead to dismissal from the band.**

# PERFORMING ARTS

## COURSE TITLE

## DESCRIPTION

### AUDIO ENGINEERING

#### (T1066) AUDIO ENGINEERING

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Students will learn to construct a dynamic, high-quality mix for live sound using a digital audio console. Students will identify proper microphone technique, equalization, effects and dynamics processing to build professional quality instrument sounds and vocals. Students will gain insight into both the art and profession of music production and will learn both the technical and interpersonal approaches to creating a successful recording.

### GIRLS CHORUS

#### (T1052A) GIRLS CHORUS

DETAILS: 1 Trimester each  
CREDIT: 0.5 each  
GRADE LEVEL: 9-12  
PREREQUISITE: An audition and/or teacher recommendation is needed for this course. Students may elect to take this course more than one trimester.

The Girls Chorus is offered to female students in grades 9 through 12 who enjoy singing. This is a performing group. Emphasis will be made on improving music reading skills and singing techniques in preparation for auditions into Concert Choir. Girls chorus includes a weekly sectional. **Attendance at all performances is required.** Grading in Girls Chorus is based on a combination of class participation, attendance, sectional grades and individual singing grades.

### GUITAR

#### (1064) GUITAR

DETAILS: 1 Trimester each  
CREDIT: 0.5 each  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Guitar is designed for the beginning guitarist. Areas of concentration include note reading, chord study and rhythmic patterns. Students will learn many different styles, skills and techniques required to become a successful guitarist.

### KEYBOARDING I

#### (T1060) KEYBOARDING I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Keyboarding I is designed for the beginning keyboard player. Students will develop their playing technique on the keyboard through the performance of basic solos and duets. Topics will include reading music notation, rhythm, pitch, melody, harmony, texture, and form among others. Students will also explore a variety of musical styles through performance and listening examples.

# PERFORMING ARTS

## COURSE TITLE

## DESCRIPTION

### KEYBOARDING II

#### (T1061) KEYBOARDING II

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Keyboarding I

Keyboarding II is an extension of the Keyboarding I course. Students will continue to develop their piano skills and perform more advanced music. This course will explore different styles of music and include group performances and improvisation. Students will gain knowledge and skills in order to become a successful keyboardist.

### MUSIC HISTORY

#### (T1058) MUSIC HISTORY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Music History will trace the development of music, covering the major periods from the Medieval through the twentieth century. The study of the development of Jazz will also be included. A study of the major composers for each period in the evolution of music will be the focus of this class.

### MUSIC THEORY I

#### (T1055) MUSIC THEORY I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Music Theory I is designed for students who are interested in learning the fundamentals of music. This includes scale and chord studies, basic composition, and understanding the basic rules of harmony and part writing. Students will use technology to compose and further develop the basic elements of music. Students will develop their knowledge of rhythm, intervals and dictation through the use of solfege and ear training.

### MUSIC THEORY II

#### (T1056) MUSIC THEORY II

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Music Theory I

Music Theory II is an extension of Music Theory I with continued emphasis on solfege and ear training. This will include more advanced study of harmony and part writing with an introduction to more complex harmonic analysis, composition and arranging. Students will use several software and online sources to create their own compositions.

# PERFORMING ARTS

## COURSE TITLE

## DESCRIPTION

### MUSICAL THEATER

#### **(T1057) MUSICAL THEATER**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Musical Theater will trace the history of Broadway musicals, covering musicals from the late 19<sup>th</sup> century to modern productions. Students will study the major productions, performers and composers throughout this time. Students will explore aspects of musicals including sets, dance, make-up, costumes, acting and singing.

### VOICE I

#### **(T1059) VOICE I**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Voice I allows students to develop their vocal technique and perform solo repertoire. Students will explore the vocal instrument, the elements of good voice production, solo singing and sight singing. This course will develop skills that can be applied to a variety of styles of music and will help students to become a successful vocalist. This is a non-performing group.

### VOICE II

#### **(1062) VOICE II**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Voice I

Voice II is an extension of the Voice I course. Students will continue to develop their vocal technique and perform more advanced solo repertoire. This course will develop skills that can be applied to a variety of styles of music and will help students to become a successful vocalist.

## COURSE TITLE

## DESCRIPTION

### SCIENCE

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### **Grade 9**

General Science

Honors Chemistry

Honors General Science

#### **Grade 10**

AP Biology

AP Chemistry

AP Physics 1

Astronomy, Climate, and Resources

Biology

Chemistry

Field Biology Course (Summer)

Geology & Meteorology

Honors Biology

Honors Challenges in Physics

Honors Chemistry

Human Biology

Six Kingdom Survey

#### **Grade 11**

AP Biology

AP Chemistry

AP Environmental Science

AP Physics 1

AP Physics 2

Astronomy, Climate, and Resources

Chemistry

Field Zoology

Forensics

Geology & Meteorology

Honors Challenges in Physics

#### **Grade 11 (continued)**

Honors Chemistry

Honors Physics

Human Biology

Materials Science

Physics

Practical Physics

Six Kingdom Survey

#### **Grade 12**

AP Biology

AP Chemistry

AP Environmental Science

AP Physics 1

AP Physics 2

AP Physics C: Electricity and Magnetism

AP Physics C: Mechanics

Astronomy, Climate, and Resources

Chemistry

Field Zoology

Forensics

Geology & Meteorology

Honors Challenges in Physics

Honors Chemistry

Honors Physics

Human Biology

Materials Science

Physics

Practical Physics

Six Kingdom Survey

## COURSE TITLE

## DESCRIPTION

### AP BIOLOGY - lab science (NCAA approved) – For College Credit

(T0317A) AP BIOLOGY A  
(T0317B) AP BIOLOGY B  
(T0317C) AP BIOLOGY C

DETAILS: 3 Trimesters  
CREDIT: 1.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Students must have completed Chemistry (suggested grade of B or higher in Honors Chemistry or an A in CCR Chemistry)

### AP CHEMISTRY - lab science (NCAA approved) – For College Credit

(T0335A) AP CHEMISTRY A  
(T0335B) AP CHEMISTRY B  
(T0335C) AP CHEMISTRY C

DETAILS: 3 Trimesters  
CREDIT: 1.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Students must have completed Honors Chemistry (suggested grade of B or better). They must also have completed Algebra II (suggested grade of B or better) or Honors Algebra II (suggested grade of C or better).

### AP ENVIRONMENTAL SCIENCE - lab science (NCAA approved)

(T0327A) AP ENVIRONMENTAL SCIENCE A  
(T0327B) AP ENVIRONMENTAL SCIENCE B

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: Students who take this course must have completed General Science, Biology, and Algebra I.

This course is an advanced level general biology course with more extensive laboratory time. Biology will be studied at levels from molecular to ecosystems and will be based on the four Big Ideas of evolution, energy, information and interaction. It is similar to a college-level introductory biology course and is intended to prepare students to take the AP Biology examination in the spring. Students will complete an independent research experiment for this course.

This course is a full-year course in general chemistry designed for college-bound students interested in chemistry or a chemistry related field in college. The course will cover the same material presented in a typical freshman college chemistry course including physical, inorganic, organic, and analytical chemistry. Students will be prepared to take the Chemistry AP test offered by the College Board in May. Students will complete an independent research experiment or alternate project for this course. **Summer work is a requirement for this course.**

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Themes include: science is a process and environmental problems exist within a societal and cultural context; Earth's systems constantly interact with each other; humans affect the environment in complex ways, and long-term survival depends on living in harmony and managing our resources. In college, environmental science is offered from a wide variety of departments, including geology, biology, environmental studies, environmental science, chemistry, and geography. This course is intended to prepare students to take the AP exam in Environmental Science administered by the College

## COURSE TITLE

## DESCRIPTION

### AP ENVIRONMENTAL SCIENCE (CONT'D)

Board in May. It will also enable students to undertake, as first-year college students, a more advanced study of topics in environmental science and arm them with valuable perspective in policy-making arenas. This course will require students to perform an independent research experiment and will require independent study outside of class. **There is also summer work required for this course.**

### AP PHYSICS 1 - lab science (NCAA approved) – For College Credit

This first-year physics course is a rigorous survey of Newtonian mechanics and wave theory. It will prepare students to take the AP Physics 1 test offered by The College Board.

(T0344A) AP PHYSICS 1 A

(T0344B) AP PHYSICS 1 B

Problem-solving and laboratory work are emphasized. This course is designed particularly for students having a strong interest in pursuing careers in science or engineering. **Summer work is also a requirement for this course.**

DETAILS: 2 Trimesters (Trimesters 1 and 2 only)

CREDIT: 1.0

GRADE LEVEL: 10-12

PREREQUISITE: Students should have a strong math background and must have completed both Algebra II and Geometry (suggested grade of B or better in both) OR Honors Algebra II and Honors Geometry (suggested grade of C or better in both). Students who have completed math *only* through Honors Algebra II may take AP Physics 1 if they've earned a grade of B or better in Honors Algebra II.

### AP PHYSICS 2 - lab science (NCAA approved) – For College Credit

This is a second-year course recommended for students planning to enroll in science-related college programs or having a strong interest in physics. Emphasis will be placed upon fluids, thermodynamics, electromagnetism, optics, and various topics from modern physics. This course will prepare students to take the AP Physics 2 test offered by The College Board. Students will complete an independent research experiment for this course.

(T0345A) AP PHYSICS 2 A

(T0345B) AP PHYSICS 2 B

(T0345C) AP PHYSICS 2 C

DETAILS: 3 Trimesters

CREDIT: 1.5

GRADE LEVEL: 11-12

PREREQUISITE: Students must have completed AP Physics 1 (suggested grade of C or better) or Honors Physics (suggested grade of B or better). Students should be enrolled in Calculus when taking this course.

## COURSE TITLE

## DESCRIPTION

### **AP PHYSICS C: ELECTRICITY AND MAGNETISM** -lab science (NCAA approved)

#### **(T0347) AP PHYSICS C: ELECTRICITY AND MAGNETISM**

DETAILS: 1 Trimester (**Trimester 2 only**)  
 CREDIT: 0.5  
 GRADE LEVEL: 12  
 PREREQUISITE: Students must be taking AP Calculus (BC recommended) and must be enrolled in or have completed AP Physics 2.

### **AP PHYSICS C: MECHANICS** - lab science (NCAA approved)

#### **(T0346) AP PHYSICS C: MECHANICS**

DETAILS: 1 Trimester (**Trimester 1 only**)  
 CREDIT: 0.5  
 GRADE LEVEL: 12  
 PREREQUISITE: Students must be taking AP Calculus (BC recommended) and have already completed AP Physics 1

### **ASTRONOMY, CLIMATE, AND RESOURCES** (NCAA approved)

#### **(T0320B) Astronomy, Climate, and Resources**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 10-12  
 PREREQUISITE: None

This course is recommended for students who wish to study engineering or physics in college. It is designed to prepare students to take the AP Physics C: Electricity and Magnetism test offered by the College Board and covers calculus-based electromagnetism at a level encountered by first-year college engineering students. Calculus concepts will be taught and utilized throughout the course and applied to topics previously encountered in AP Physics 2.

This course is recommended for students who wish to study engineering or physics in college. It is designed to prepare students to take the AP Physics C: Mechanics test offered by the College Board and covers calculus-based mechanics at a level encountered by first-year college engineering students. Calculus concepts will be taught and utilized throughout the course and applied to topics previously encountered in AP Physics 1.

Astronomy, Climate, and Resources covers environmental issues (minerals and mineral resources, mapping, energy), climate and climate change, storms, and astronomy. Career pathways include environmental scientist, astronomer, physicist, working in planetariums, science museums, or in other public service positions including educators. Although most astronomers have advanced degrees, people with an undergraduate major in astronomy or physics can find jobs in support positions at national observatories, federal agencies, and sometimes in large astronomy departments at universities. An undergraduate astronomy degree is excellent preparation for science teachers, laboratory technicians, computer programmers, and science journalists. It can also serve as the basis for graduate degrees in other fields, such as law or medical school. Degrees in astronomy are as attractive as physics or mathematics degrees to many employers, with these candidates often seen as 'outside-the-box' thinkers.



## COURSE TITLE

## DESCRIPTION

**BIOLOGY** - lab science (NCAA approved – 1 credit max)

**(T0313A) BIOLOGY A**

**(T0313B) BIOLOGY B**

**(T0313C) BIOLOGY C**

DETAILS: 3 Trimesters

CREDIT: 1.5

GRADE LEVEL: 10

PREREQUISITE: None

This biology course is a Keystone biology course that consists of the study of biochemistry, cellular structure and function, cellular processes, the continuity of life, genetics, ecology, and an overview of the 6 kingdoms. **This course, Honors Biology, or AP Biology must be passed for graduation.**

**CHEMISTRY** - lab science (NCAA approved)

**(T0333A) CHEMISTRY A**

**(T0333B) CHEMISTRY B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10-12

PREREQUISITE: Students must have taken Algebra I (suggested grade of C or higher) prior to taking this course.

This course is a two-trimester course in general chemistry designed for college-bound students. Upon completion of this course, students will have been exposed to a wide variety of chemical principles. An attempt is made to meet the needs of the student wishing to continue their education in the sciences as well as the liberal arts student who desires a less rigorous course covering a variety of topics.

**FIELD BIOLOGY COURSE (SUMMER)** (NCAA approved)

**(T0360) FIELD BIOLOGY COURSE (SUMMER)**

DETAILS: Summer Course

CREDIT: 0.5

GRADE LEVEL: 10

PREREQUISITE: Completion of Honors Biology or Biology

Students will utilize a variety of methods and equipment to sample flora and fauna of various marine ecosystems found at Chincoteague Bay Field Station, Virginia, and the surrounding area. The course emphasizes ecological relationships as well as field and laboratory identification of a wide spectrum of organisms. The course is preceded by one pre-session at Dallastown prior to the four-day field study at Chincoteague Bay Field Station.

**FIELD ZOOLOGY** (NCAA approved)

**(T0371) FIELD ZOOLOGY**

DETAILS: 1 Trimester (**Trimester 3 only**)

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: Completion of Honors Biology or Biology

This course provides practical experiences in the study of Mammalogy, Ornithology, and Entomology. Students will develop and apply skills in identification and sampling, as well as explore relations between species diversity and habitat, and investigate through guided study, the extent of anatomical, skeletal, and morphological variations.

## COURSE TITLE

## DESCRIPTION

### **FORENSICS** (NCAA approved)

#### **(T0373) FORENSICS**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 11-12  
 PREREQUISITE: General Science (suggested grade of C or better) and Biology

This course will give students an overview of the crime scene investigation process as well as issues involved in presenting forensic evidence in a court of law. The course will cover identification, documentation, and collection of evidence, including fingerprints, shoe impressions, hair and fibers, firearm evidence, questioned documents, DNA, blood, and other materials that could be presented as evidence. The course will also cover the use of forensic evidence in a court of law, and how it plays an impact in guilt and innocence. The course is designed to provide a basic foundation and overview in criminalistics and is meant for students who have interest in using science to solve crimes.

### **GENERAL SCIENCE** - lab science (NCAA approved)

#### **(T0303A) GENERAL SCIENCE A** **(T0303B) GENERAL SCIENCE B**

DETAILS: 2 Trimesters  
 CREDIT: 1.0  
 GRADE LEVEL: 9  
 PREREQUISITE: None

This course is an introduction to the principles of chemistry and physics, with special emphasis given to their relationship to the biological sciences. It is designed to provide the chemical basis for the grade 10 Biology experience. This course along with Biology will provide students with the necessary preparation to take the Biology Keystone Exam. **All incoming freshmen must pass General Science, Honors General Science, or Honors Chemistry in order to fulfill one science credit for graduation.**

### **GEOLOGY & METEOROLOGY** (NCAA approved)

#### **(T0320A) Geology & Meteorology**

DETAILS: 1 Trimester  
 CREDIT: 0.5  
 GRADE LEVEL: 10-12  
 PREREQUISITE: None

Geology & Meteorology covers Earth history and geologic time, plate tectonics (including earthquakes and volcanoes), rocks and the rock cycle, the atmosphere, and meteorology— leads to successful careers in academics, research, politics, government, industry, publishing, the arts, and much more...including Meteorology, Mineralogy, Soil Science, Paleontology, Geophysics, Volcanology, Seismology, Hydrology and Environmental Science, Petroleum Geology. The course emphasizes connections between earth systems, how our actions affect our environment and how our Earth affects us (earthquakes, sinkholes, flooding, etc.) Every citizen can benefit from learning about potential dangers.

### **HONORS BIOLOGY** - lab science (NCAA approved)

#### **(T0314A) HONORS BIOLOGY A** **(T0314B) HONORS BIOLOGY B**

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
 CREDIT: 1.0  
 GRADE LEVEL: 10  
 PREREQUISITE: None

This biology course is designed for students who plan to pursue a future career in science. The course will cover all Keystone Biology exam eligible content with an emphasis on vocabulary. The course moves at a faster pace than the other biology courses and covers the content in more detail. The course consists of the study of biochemistry, cellular structures and functions, cellular processes, the continuity of life, genetics, ecology, and a brief survey of the kingdoms.

**Formally written laboratory reports assigned each trimester or an independent research experiment are required to pass the course.**

**This course, Biology, or AP Biology must be passed to fulfill one science credit for graduation.** In order to succeed in Honors Biology, it is strongly recommended that a student have:

## COURSE TITLE

## DESCRIPTION

### **HONORS CHALLENGES IN PHYSICS** (NCAA approved)

#### **(T0348) HONORS CHALLENGES IN PHYSICS**

DETAILS: 1 Trimester (**Trimester 3 only**)

CREDIT: 0.5

GRADE LEVEL: 10-12

PREREQUISITE: Students electing this course must have completed either Physics (term A) or AP Physics 1 and must have taken or be enrolled in Precalculus.

### **HONORS CHEMISTRY** - lab science (NCAA approved)

#### **(T0334A) HONORS CHEMISTRY A**

#### **(T0334B) HONORS CHEMISTRY B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: Students should have a strong math and science background and must have completed Algebra I (suggested grade of B or better) or Honors Algebra I (suggested grade of C or better.) Incoming freshmen must have earned an A in Honors Algebra I.

- a) A grade of B or better in Honors 9th grade General Science with recommendation of the teacher or an A in 9th grade General Science with recommendation of the teacher.

A grade of B or better in Honors 9th grade English or an A in 9th grade English. Strong writing skills are also recommended.

This course is designed to give students who have already studied the theory of physics an opportunity to apply it to practical and theoretical challenges. Practical challenges will include a projectile target shoot, an egg bungee drop, a Tarzan swing, and others. Part of the course will be devoted to analyzing the physics of amusement park rides and roller coaster design, culminating in a trip to an amusement park to collect and analyze data. The course will also explore the theoretical challenge that Einstein's theory of special relativity posed to the ideas of classical physics and examine the consequences of this challenge.

This course is a two-trimester course in general chemistry designed for students having a strong interest in pursuing careers in science, engineering, or medical related fields. Students in this course will need to apply algebra skills and chemistry concepts to the solution of challenging problems. Homework, test, and quiz problems will NOT be essentially identical to the ones done in class. Upon completion of this course, students will have been exposed to a wide variety of chemical principles and will be prepared to take additional courses in chemistry at the college level or to enroll in Advanced Placement Chemistry. **All incoming freshmen must pass General Science, Honors General Science, or Honors Chemistry in order to fulfill one science credit for graduation. Freshmen taking this course instead of Honors General Science will need to complete an independent research experiment utilizing the scientific method.**

## COURSE TITLE

## DESCRIPTION

### **HONORS GENERAL SCIENCE** - lab science (NCAA approved)

**(T0304A) HONORS GENERAL SCIENCE A**  
**(T0304B) HONORS GENERAL SCIENCE B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 9  
PREREQUISITE: Students must have taken Honors Algebra I (suggested grade of B or better) or Algebra I (suggested grade of A).

### **HONORS PHYSICS** – lab science (NCAA approved)

**(T0342A) HONORS PHYSICS A**  
**(T0342B) HONORS PHYSICS B**

DETAILS: 2 Trimesters  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Students should have a strong math background and must have completed both Algebra II and Geometry (suggested grade of B or better in both) OR Honors Algebra II and Honors Geometry (suggested grade of C or better in both).

### **HUMAN BIOLOGY** (NCAA approved)

**(T0325) HUMAN BIOLOGY**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

### **MATERIALS SCIENCE** - lab science (NCAA approved)

**(T0340) MATERIALS SCIENCE**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Completion of General Science and Biology

This course is an introduction to the principles of the physical sciences, specifically chemistry and physics, and is designed to prepare students for later course work in these areas. An independent research experiment utilizing the scientific method will be performed. This course will also provide the chemical basis for the grade 10 Biology experience. This course along with Biology will provide students with the necessary preparation to take the Biology Keystone Exam. **All incoming freshmen must pass General Science, Honors General Science, or Honors Chemistry in order to fulfill one science credit for graduation.**

This two-trimester, first year physics course is a rigorous survey of Newtonian mechanics and wave theory. Problem-solving and laboratory work will be emphasized. This course is designed for students having a strong interest in science. Although the content of this course will be similar to that of AP Physics 1, it will cover fewer topics and focus more on numerical solutions to problems instead of theoretical explanations and algebraic expressions.

This course is designed for students who do not plan to pursue a post-secondary experience but who wish to gain a better biology-based understanding of the human experience. Students will study the human body at various levels, particularly at the systems level. Topics include reproduction, development, comparative anatomy, pathology, and mortality. The objective is to develop a more complete understanding of what makes us uniquely human.

Materials Science is a one-trimester course that will study metals, polymers, ceramics, and composites. Students will explore the differences between these types of materials and the unique characteristics that make them usable in industrial capacities. Students will also get hands-on experience using these types of materials through lab experiences. In order to take this course, students should have some understanding of the physical sciences that causes the materials to have distinguishing properties.

## COURSE TITLE

## DESCRIPTION

### **PHYSICS** - lab science (NCAA approved)

**(T0343A) PHYSICS A**

**(T0343B) PHYSICS B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: Students must have completed CCR or Honors Algebra II (suggested grade of C or better).

This college-preparatory course covers classical mechanics, relativity, waves, sound, and optics. There will be less emphasis on mathematics than in AP Physics 1, but the concepts and insights of classical and modern physics will be covered. This course is intended for students who have scientific ability and interest, but it does **not** meet the prerequisite for AP Physics 2.

### **PRACTICAL PHYSICS** - lab science (NCAA approval pending)

**(T0341) PRACTICAL PHYSICS**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: Completion of General Science

This course will study the practical applications of thermodynamics, electricity, magnetism, and optics. While physical theory will be addressed, an emphasis will be placed on how these topics apply to everyday situations. For instance, students will design and build a model energy-efficient home, build and test a working electric motor, and build a spectroscope to study the composition of stars.

### **SIX KINGDOM SURVEY** (NCAA approved)

**(T0318) SIX KINGDOM SURVEY**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 10-12

PREREQUISITE: Students must have passed Biology A and Biology B (CCR or Honors).

This course will focus on the six kingdoms of biological classification, Archaea, Eubacteria, Protista, Fungi, Plantae, and Animalia. The course will identify and differentiate between the six kingdoms and will explore groups of organisms within each. An emphasis will be placed on the study of Kingdom Animalia. Observation of and dissection of specimens will be mandatory.

# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

### SOCIAL STUDIES

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### Grade 9

AP Human Geography

Honors World Cultures

World Cultures

#### Grade 10

American Cultures

AP Human Geography

AP Macroeconomics (offered 2022-2023)

AP Microeconomics (offered 2021-2022)

AP U.S. History

Civil War

Holocaust Studies

Honors American Cultures

Honors Philosophy Major (1.0 Humanities Credit not S.S.)

Honors Philosophy Minor (0.5 Humanities Credit not S.S.)

Local History

Philosophy Major (1.0 Humanities Credit not S.S.)

Philosophy Minor (0.5 Humanities Credit not S.S.)

#### Grades 11 and 12

AP European History

AP Human Geography

AP Macroeconomics (offered 2022-2023)

AP Microeconomics (offered 2021-2022)

AP Psychology

AP US Government/Politics

Civil War

Financial Literacy and Economics

Geography

Government and Politics (formerly Civics)

History of Agriculture and Food

Holocaust Studies

Honors Financial Literacy and Economics

Honors Government and Politics (formerly Honors Civics)

Honors Philosophy Major (1.0 Humanities Credit not S.S.)

Honors Philosophy Minor (0.5 Humanities Credit not S.S.)

Honors Women's Studies

Introduction to Law

Local History

Philosophy Major (1.0 Humanities Credit not S.S.)

Philosophy Minor (0.5 Humanities Credit not S.S.)

Psychology

Sociology

Western Civilization

# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

### AMERICAN CULTURES (NCAA approved)

(T0208A) AMERICAN CULTURES A  
(T0208B) AMERICAN CULTURES B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10  
PREREQUISITE: None

### AP EUROPEAN HISTORY (NCAA approved)

(T0237A) AP EUROPEAN HISTORY A  
(T0237B) AP EUROPEAN HISTORY B

DETAILS: 2 Trimesters (Trimester 1 and 2 only)  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: None

### AP HUMAN GEOGRAPHY (NCAA approved)

(T0235A) AP HUMAN GEOGRAPHY A  
(T0235B) AP HUMAN GEOGRAPHY B

DETAILS: 2 Trimesters (Trimester 1 and 2 only)  
CREDIT: 1.0  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### AP MACROECONOMICS (NCAA approved)

(OFFERED 2022-2023)

(T0221) AP MACROECONOMICS

DETAILS: 2 Trimesters (Trimester 1 and 2 only)  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra II

The US History course explores the social, economic and political issues of U.S. History from the post-Civil War period to the present day. It will thematically analyze the essential components of American history and life.

Advanced Placement European History is a survey course dating from approximately 1450 to the present that concentrates on major political, social, economic, intellectual, and cultural themes throughout this period. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. At the conclusion of this course on a specific date, the students can participate in the testing program provided by College Board. **There is a required summer assignment to be graded in the first marking period of the course.**

The Advanced Placement Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. It is an excellent course for preparing students to become geo-literate youth and adults. **There is required summer assignments.**

The purpose of the AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

**AP MICROECONOMICS** (NCAA approved)  
(OFFERED 2021-2022)  
(T0220) AP MICROECONOMICS

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra II

**AP PSYCHOLOGY** (NCAA approved)

(T0223A) AP PSYCHOLOGY A  
(T0223B) AP PSYCHOLOGY B

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: None

**AP US GOVERNMENT/POLITICS** (NCAA approved)

(T0236A) AP US GOVERNMENT/POLITICS A  
(T0236B) AP US GOVERNMENT/POLITICS B

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: None

**AP US HISTORY** (NCAA approved)

(T0216A) AP US HISTORY A  
(T0216B) AP US HISTORY B

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)  
CREDIT: 1.0  
GRADE LEVEL: 10  
PREREQUISITE: None

AP Microeconomics is an introductory college-level course that focuses on the principals of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failures, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

Advanced Placement Psychology is an introduction to basic scientific logic, facts, theories, and principles of psychology, including the study of human motivation, learning, emotion, perception, thought, intelligence, and personality. In addition to the facts of psychology, students will also learn the "how" of psychology. Students in this course will engage in an objective and systematic study of human behavior and mental processes. The writing component of the course includes an APA style research paper and an in-depth analysis of current psychological research found in a professional psychological journal. At the conclusion of this course students can participate in the testing program provided by College Board for potential college credit.

AP United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. Students will be given the opportunity to take the AP U.S. Government and Politics exam in May.

The Advanced Placement program in U.S. History is designed to provide students with factual background information directed toward the development of analytic skills necessary to deal critically with concepts throughout the history of our nation. It is important that a student be able to express herself or himself in both verbal and written form to meet the requirements and be successful in this course. At the conclusion of this course on a specified date the students can participate in the testing program provided by the College Board. **There is required summer assignments.**



# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

### CIVIL WAR (NCAA approved)

#### (T0250) CIVIL WAR

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

This course involves the study of the American Civil War and the Reconstruction Era. The struggle over slavery, military strategies and tactics, significant personalities, and crucial turning points will be stressed. Political changes and effects will also be discussed.

### FINANCIAL LITERACY AND ECONOMICS

#### (T0225) FINANCIAL LITERACY AND ECONOMICS

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

This **required** trimester course will introduce students to the basic principles of financial literacy and economics. Students will begin to develop the skills and strategies that promote personal and financial responsibility related to financial planning, savings, investment, and the wise use of credit. Five broad topics will be the foundation of the course: college and/or career planning, money management, savings and investing, income, and spending. Additionally, this course will provide students with an understanding of basic economic concepts and systems.

### GEOGRAPHY (NCAA approved)

#### (T0230) GEOGRAPHY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Geography will help students develop an understanding of a broad range of geographic concepts including physical geography, population, culture, spatial behavior, natural resources, urbanization and regions. Through studying the highly integrated relationships between the physical world and the spatial patterns of cultural, political, and economic activities, the student will see the significance of the geographic perspective and gain a new appreciation of this complex world in which we live.

### GOVERNMENT AND POLITICS (NCAA approved)

#### (T0229) GOVERNMENT AND POLITICS

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Government and Politics is a **required** course for graduation. beginning with the Class of 2019 and covers several aspects of government. The course will explore the origins of the American democratic system while looking at how the Constitution embodies the values and purposes set up by the Founding Fathers. The structure and function of the government will be analyzed on a national, state, and local level. Throughout the course we will focus on how the people play an active role in government and the importance each citizen contributes to society.

# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

### HISTORY OF AGRICULTURE AND FOOD

(NCAA approved)

#### (T0251) HISTORY OF AGRICULTURE AND FOOD

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: None

This one trimester course is designed to educate students about concepts related to human food procurement and production through historical stages of hunter-gatherer societies, Neolithic revolutions, technological changes and mechanization, as well as modern discourses on food and food production. It will be a multi-disciplinary look at the above topics including anthropological, economic, historical, political, and sociological components. It will be both chronological and topical in structure.

### HOLOCAUST STUDIES (NCAA approved)

#### (T0253) HOLOCAUST STUDIES

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 10-12

PREREQUISITE: None

This course will offer each student an in-depth look at the history of genocide throughout history. Specific attention will be focused on the Holocaust of Nazi Germany during World War II. This class will also include discussions on stereotyping, bias and discrimination.

### HONORS AMERICAN CULTURES (NCAA approved)

#### (T0209A) HONORS AMERICAN CULTURES A

#### (T0209B) HONORS AMERICAN CULTURES B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10

PREREQUISITE: None

The US History course explores the social, economic and political issues of U.S. History from the post-Civil War period to the present day. It will thematically analyze the essential components of American history and life.

### HONORS FINANCIAL LITERACY AND ECONOMICS

#### (T0224) HONORS FINANCIAL LITERACY AND ECONOMICS

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: None

This **required** trimester course is designed to alert, inform, and educate students in concepts of financial literacy and economic theory. Students will begin to develop the skills and strategies that promote personal and financial responsibility related to financial planning, savings, investment, and the wise use of credit. Five broad topics will be the foundation of the course: college and career planning, money management, savings and investing, income, and spending. Additionally, this course will provide students with an understanding of important economic principles, theories, and systems.

# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

### HONORS GOVERNMENT AND POLITICS

(NCAA approved)

#### (T0228) HONORS GOVERNMENT AND POLITICS

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Government and Politics is a **required** course for graduation beginning with the Class of 2019 and covers several aspects of government. The course will explore the origins of the American democratic system while looking at how the Constitution embodies the values and purposes set up by the Founding Fathers. The structure and function of the government will be analyzed on a national, state, and local level while showing how each level is interrelated. Throughout the course we will focus on how the people play an active role in government and the importance each citizen contributes to society.

### HONORS WOMEN'S STUDIES (NCAA approved)

#### (T0249) HONORS WOMEN'S STUDIES

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

An interdisciplinary study of the various ways women have participated in American society and politics. The course will attempt to help students understand the impact which political, social, economic, and racial aspects of American history have had on American women, and, conversely, the impact women in the United States have had on developments within these areas. The course will include a critical analysis of the role of women in society as well as an examination of the intersectional experience of American women.

### INTRODUCTION TO LAW (NCAA approved)

#### (T0233) INTRODUCTION TO LAW

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

Introduction to Law offers students interested in law and/or law enforcement an introduction to legal theory and a history of the evolution of law. The American legal system is the main focus of the course with topics such as the U.S. Constitution, the Judicial Branch, Landmark Supreme Court Decisions, and Criminal Law and Procedures comprising the core concepts of this Social Studies Elective.

### LOCAL HISTORY (NCAA approved)

#### (T0260) LOCAL HISTORY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

This course is designed to give students a better perspective of their community and the rich history it holds. The history of York County will be taught using primary and secondary sources. Specific attention will be given to York's role during our nation's development and the effects of national trends on the population of York County.

# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

### **PHILOSOPHY MAJOR** (NCAA approved)

(T1363A) PHILOSOPHY MAJOR A  
(T1363B) PHILOSOPHY MAJOR B

**OR**

(T1364A) HONORS PHILOSOPHY MAJOR A  
(T1364B) HONORS PHILOSOPHY MAJOR B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10 -12  
PREREQUISITE: None

**THIS CLASS IS A HUMANITIES CREDIT,  
NOT SOCIAL STUDIES.**

### **PHILOSOPHY MINOR** (NCAA approved)

(T1360) PHILOSOPHY MINOR

**OR**

(T1361) HONORS PHILOSOPHY MINOR

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

**THIS CLASS IS A HUMANITIES CREDIT,  
NOT SOCIAL STUDIES.**

### **PSYCHOLOGY** (NCAA approved)

(T0240) PSYCHOLOGY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

### **SOCIOLOGY** (NCAA approved)

(T0245) SOCIOLOGY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

The study of philosophy provides students with the opportunity to explore the great questions of human existence. It is of lasting relevance to students entering all career pathways given its focus on allowing the student to get a better grasp of what it means to live a good and meaningful life. A Social Studies teacher must provide the recommendation. **Students who take Philosophy Minor are unable to take the two trimester Philosophy Major course.**

The study of philosophy provides students with the opportunity to explore the great questions of human existence. It is of lasting relevance to students entering all career pathways given its focus on allowing the student to get a better grasp of what it means to live a good and meaningful life. In this introductory course we will examine various ethical systems and their bearing on contemporary moral issues and discuss some of the prevailing questions that have challenged thinkers for centuries such as the existence of God, the meaning of life, and the nature of human existence. A Social Studies teacher must provide the recommendation. **Students who take Philosophy Minor are unable to take the two trimester Philosophy Major course.**

The objective of this course is to acquaint students to the study of human behavior. While some information will be theoretical in nature, the emphasis of the course will be on material that will be applicable in everyday life.

Sociology is the study of human social life, groups, and societies, focusing on the modern world. In this course, students will utilize a sociological perspective to step back and objectively view our social world in a new light.

Students selecting Sociology are strongly encouraged to have a desire to listen to various perspectives and a desire to share personal opinions. This course will demand analytical thinking skills as students will evaluate, discuss, and debate our subject matter.

# SOCIAL STUDIES

## COURSE TITLE

## DESCRIPTION

### WESTERN CIVILIZATION (NCAA approved)

#### (T0248) WESTERN CIVILIZATION

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: None

### WORLD CULTURES (NCAA approved)

#### (T0203A) WORLD CULTURES A

#### (T0203B) WORLD CULTURES B

#### OR

#### (T0204A) HONORS WORLD CULTURES A

#### (T0204B) HONORS WORLD CULTURES B

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 9  
PREREQUISITE: None

This course will study the history of Europe through the influence of the Greek city-states and Roman Empire of the Middle Ages. Topics include: the legacy of Greece and Rome, the rise of Christianity, and the Middle Ages. Analytical skills and higher order thinking will be required.

World Cultures seeks to provide an appreciation, understanding, and tolerance toward other people through a study of cultures of the world. World Cultures is a required Social Studies credit for 9th grade students.

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### TECHNOLOGY AND ENGINEERING

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### **Grade 9**

Fundamentals of Engineering Design and Drafting

Graphic Productions

Introduction to Engineering and Technology

Metals I: Metal Materials and Processes

Remote Technology and Engineering

Video I – Digital Video Production

Video II – Television Production and Broad. Journalism

Wood I: Wood Materials and Processes

#### **Grade 10**

Architectural Drafting and Design I

Computer Aided Drafting I

Digital Photography

Fundamentals of Engineering Design and Drafting

Graphic Productions

Honors Electronics

Honors Robotics I

Honors Robotics II

Introduction to Engineering and Technology

Metals I: Metal Materials and Processes

Metals II: Metal Materials and Processes

Remote Technology and Engineering

Robotics I

Video I – Digital Video Production

Video II – Television Production and Broad. Journalism

Video III – Adv. Television Prod. and Broad. Journalism

#### **Grade 10 (Continued)**

Wood I: Wood Materials and Processes

Wood II: Wood Materials and Processes

#### **Grade 11**

Architectural Drafting and Design I

Architectural Drafting and Design II

Computer Aided Drafting I

Digital Photography

Fundamentals of Engineering Design and Drafting

Graphic Productions

Honors Computer Aided Drafting II

Honors Digital Filmmaking

Honors Electronics

Honors Engineering Design and Development

Honors Robotics I

Honors Robotics II

Metals I: Metal Materials and Processes

Metals II: Metal Materials and Processes

Metals III: Metal Manufacturing and Applied Engineering

Remote Technology and Engineering

Robotics I

Video I – Digital Video Production

Video II – Television Production and Broad Journalism

Video III – Adv Television Prod and Broad Journalism

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### TECHNOLOGY AND ENGINEERING

Classes offered at various grade levels may require a prerequisite. Refer to the course descriptions for detailed information.

#### **Grade 11 (Continued)**

Wood I: Wood Materials and Processes

Wood II: Wood Materials and Processes

Wood III: Wood Production and Design

#### **Grade 12**

Architectural Drafting and Design I

Architectural Drafting and Design II

Computer Aided Drafting I

Digital Photography

Fundamentals of Engineering Design and Drafting

Graphic Productions

Honors Computer Aided Drafting II

Honors Digital Filmmaking

Honors Digital Video/Independent Study

Honors Electronics

Honors Engineering Design and Development

Honors Robotics I

Honors Robotics II

Metals I: Metal Materials and Processes

Metals II: Metal Materials and Processes

Metals III: Metal Manufacturing and Applied Engineering

Metals IV: Advanced Metal Manufacturing

Remote Technology and Engineering

Robotics I

#### **Grade 12 (Continued)**

Video I – Digital Video Production

Video II – Television Production and Broadcast Journalism

Video III – Advanced Television Production and Broadcast Journalism

Wood I: Wood Materials and Processes

Wood II: Wood Materials and Processes

Wood III: Wood Production and Design

Wood IV: Advanced Product Design

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

Technology and Engineering Education department courses offer all students the opportunity to become academically skilled and technologically literate in today's multifaceted world. The hands-on, kinesthetic approach allows for the application of the Common Core Curriculum and assists with Keystone preparedness. The Technology and Engineering courses offer all students the opportunity to increase and enhance valuable problem solving and critical thinking skills necessary to be successful in any field of study. Students participating in Technology and Engineering courses are better prepared for high-tech career fields and post-secondary education and are more likely to be successful.\*

*\*The cost of materials used in Technology and Engineering education courses may become a financial responsibility of the student.*

The Technology & Engineering Courses are organized into the following areas:

- COMMUNICATION TECHNOLOGY
- MATERIALS & PROCESSES
- ENGINEERING / STEM

## COMMUNICATION TECHNOLOGY

### DIGITAL PHOTOGRAPHY

#### (T1181) DIGITAL PHOTOGRAPHY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

Digital Photography is an exploratory course in digital imaging and editing. Students will use digital cameras and learn techniques for capturing images. Topics include composition, manipulation of camera controls, reading manuals, exposure and lighting. Students will have the opportunity to experience computer software to enhance, edit and manipulate their digital photographs. Students may be required to complete photography shooting assignments outside of class. Cameras are available through the instructor.

### GRAPHIC PRODUCTIONS

#### (T1166) GRAPHIC PRODUCTIONS

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

Graphic Productions provides individuals opportunities in graphic fields of bookbinding, pad printing, one color screen printing, and multi-color screen printing with the use of graphic software. Individual design of projects is stressed. Recommended to also take Graphic Design.

### VIDEO I – DIGITAL VIDEO PRODUCTION – For College Credit

#### (T1111A) VIDEO I – DIGITAL VIDEO PRODUCTION

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

This course will examine the history of video, television, and film as well as future trends in mass media. Students will be introduced to a number of technical and non-technical skills, including script writing, storyboards, operation of equipment, and small-scale production. **\*\*Students selecting this course are encouraged to also schedule Video II – Television Production and Broadcast Journalism.**



# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### **VIDEO II – TELEVISION PRODUCTION AND BROADCAST JOURNALISM – For College**

#### **Credit**

#### **(T1111B) VIDEO II - TELEVISION PRODUCTION AND BROADCAST JOURNALISM**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: Video I – Digital Video Production

### **VIDEO III – ADVANCED TELEVISION PRODUCTION AND BROADCAST JOURNALISM**

#### **– For College Credit**

#### **(T1112A) VIDEO III – ADVANCED TELEVISION PRODUCTION AND BROADCAST JOURNALISM A (T1112B) VIDEO III – ADVANCED TELEVISION PRODUCTION AND BROADCAST JOURNALISM B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 10-12  
PREREQUISITE: Video II – Television Production and Broadcast Journalism.

### **HONORS DIGITAL FILMMAKING – For College Credit**

#### **(T1113A) HONORS DIGITAL FILMMAKING A (T1113B) HONORS DIGITAL FILMMAKING B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: Video II – Advanced Television Production and Broadcast Journalism or by consent of instructor.

### **HONORS DIGITAL VIDEO/INDEPENDENT STUDY**

#### **(T1114) HONORS DIGITAL VIDEO/INDEPENDENT STUDY**

DETAILS: 1 Trimester (*independent study*)  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: Enrollment is by consent of instructor only and can be scheduled multiple trimesters for credit.

This course is designed for students who are interested in basic television production. Emphasis is placed on television script writing, storyboards, operation of equipment, and small-scale production. Good writing skills, the ability to communicate clearly and collaborate with peers is highly suggested for this class.

This course builds upon the skills and concepts achieved in TV Production and Broadcast Journalism I. Students will continue to explore the field of Television Production with greater emphasis placed on the planning and development of small-scale production. Students are members of a TV Studio Crew and will participate in live and pre-recorded productions.

This advanced course will focus on digital film production. Students will supervise and/or conduct all pre-production, production, and post-production responsibilities while creating digital films in a variety of genres. Students will demonstrate “industry standard” level competency in the following major categories: script development, sound, camera work, lighting, editing, and work ethic. Students are required to produce an independent film project to be entered in the Dallastown Spring Shorts Film Festival.

This course will allow career focused students a greater exploration of the skills learned in Advanced Television Production and Broadcast Journalism and Advanced Digital Filmmaking. Students will deepen their understanding on topics such as, non-linear editing, storyboarding, lighting, composition and framing, audio for video, and project development. Students in Honors Digital Video will complete a wide variety of video projects, readings in the field, movie reviews, and a portfolio.

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### MATERIALS & PROCESSES

#### METALS I: METAL MATERIALS AND PROCESSES

##### **(T1177) METALS I: METAL MATERIALS AND PROCESSES**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

#### METALS II: METAL MATERIALS AND PROCESSES

##### **(T1178) METALS II: METAL MATERIALS AND PROCESSES**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: "B" or higher in Metals I and instructor approval

#### METALS III: METAL MANUFACTURING AND APPLIED ENGINEERING

##### **(T1179) METALS III: METAL MANUFACTURING AND APPLIED ENGINEERING**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: "B" or better in Metals II and instructor approval.

#### METALS IV: ADVANCED METAL MANUFACTURING

##### **(T1180) METALS IV: ADVANCED METAL MANUFACTURING**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: "B" or better in Metals III and instructor approval

This course will provide the student the opportunity to investigate and experiment with various metal materials and processes while observing their properties. Strong emphasis will be placed on the application of math and scientific principles, as well as technological impacts on industry and society. **Project Costs: \$15**

This course is a continuation of Metals I with emphasis on welding, machining and creation of metal products. Strong emphasis will be placed on problem solving skills along with continued application of math and scientific principles, as well as technological impacts on industry and society. **Project Costs: \$15 to \$30**

This course is a continuation of Metals II with emphasis on metal manufacturing and advanced design and fabrication. Students will explore the technological and management process for conceptualizing and manufacturing a product. Experiences with product engineering, production engineering, manufacturing management and enterprise operations will occur. Students will also be given the opportunity to complete a large-scale fabrication project that will incorporate advanced processes such as the use of CNC machines. Students will gain a strong understanding and application of math and scientific principles, as well as technological impacts on industry and society. **Project Costs: Varies with each project.**

This course is a continuation of Metals III with continued emphasis on advanced design and fabrication of metal products. Students will be expected to design and fabricate a project(s) by using knowledge and skills gained in previous Metals courses. Students will continue to gain a strong understanding and application of math and scientific principles, as well as technological impacts on industry and society. **Project Costs: Varies with each project.**

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### WOOD I: WOOD MATERIALS AND PROCESSES

#### **(T1185) WOOD I: WOOD MATERIALS AND PROCESSES**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### WOOD II: WOOD MATERIALS AND PROCESSES

#### **(T1186) WOOD II: WOOD MATERIALS AND PROCESSES**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: "B" or higher in Wood I and instructor approval.

### WOOD III: WOOD PRODUCTION AND DESIGN

#### **(T1187) WOOD III: WOOD PRODUCTION AND DESIGN**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: "B" or better in Wood II and instructor approval.

### WOOD IV: ADVANCED PRODUCT DESIGN

#### **(T1188) WOOD IV: ADVANCED PRODUCT DESIGN**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 12  
PREREQUISITE: "B" or higher in Wood III and instructor approval.

This course is designed to develop fundamental woodworking skills and an understanding of machine and power tool safety. In addition to learning basic woodworking skills and processes, students will also learn how to interpret working drawings, estimate project costs, and follow detailed procedure plans to construct and finish several projects. Students will apply math, measuring, and problem-solving skills in the completion of these projects. Quality craftsmanship will be emphasized. **Project Costs: \$15.**

This course allows students to develop advanced woodworking skills through the design and manufacture of wood products. After a review of the skills and content learned in Woods I, students will work in teams to design and mass-produce products for a given theme. Advanced manufacturing techniques will be discussed and utilized in the development of these products, with an emphasis on collaboration, problem solving, and quality craftsmanship. In addition, students will gain experience programming and operating high-tech machinery, including a CNC Router and Laser Engraver. **Project Costs: \$15**

This is an advanced course in woodworking with an emphasis on product design. Students will use all available resources in the lab to develop unique solutions to a variety of woodworking design challenges. Students will experience all phases of the design process, including research, brainstorming, sketching, prototyping, construction, testing, and presenting. **Project Costs: \$15**

This course is a continuation of Wood III with an emphasis on the advanced design and manufacture of wood products. Students will be expected to design and complete an independent project by applying skills and knowledge gained in previous wood courses. Throughout this experience, students will experience all phases of the design process and be able to apply math and science concepts in a real-world application. **Project Costs: \$15 to \$30.**

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### ENGINEERING / STEM

#### ARCHITECTURAL DRAFTING AND DESIGN I

##### (T1155) ARCHITECTURAL DRAFTING AND DESIGN I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: None

This course is recommended for students planning careers in architecture, construction management, engineering, architectural drafting technology or technically related fields implementing drafting and design. The course will introduce the student to architectural drafting and design. Emphasis is on the fundamentals used in architecture that influence the construction of today's homes and contemporary structures. Students will communicate ideas visually and depict architectural elements using accepted standards, practices, and conventions. Problem solving and design skills are strengthened through 2D and 3D CAD applications. Students will use SOFTPLAN software to complete the 2D and 3D drawings. Students are evaluated on designs, drawings, projects and class performance.

#### ARCHITECTURAL DRAFTING AND DESIGN II

##### (T1156) ARCHITECTURAL DRAFTING AND DESIGN II

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Students must achieve a "C" or better in Architectural Drafting and Design I.

This advanced course is recommended for those who wish to pursue an education or vocation in architecture, architectural engineering, construction management, engineering, architectural drafting or technically related fields implementing drafting and design skills. Students will study the various elements, loads, components and systems of a building, how they come together and how they must be integrated during the design and construction. Students develop projects that include model construction, detailed working drawings, presentation drawings and renderings. Problem solving and design skills are strengthened through 2D and 3D CAD applications. Students will use SOFTPLAN software to complete the 2D and 3D drawings. Students are evaluated on designs, drawings, projects and class performance.

#### COMPUTER AIDED DRAFTING I

##### (T1164) COMPUTER AIDED DRAFTING I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Completion of the Fundamentals of Engineering Design and Drafting is recommended but not required as a prerequisite.

This course is recommended for students interested in pursuing a career in engineering, engineering technology, computer aided drafting technology or technical related fields implementing engineering design. Students will use engineering and scientific concepts in the solution of engineering design problems. They will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also will learn how to document their work and communicate their solutions to their peers and instructor. Students will create and edit parametric 3D models, develop orthographic and assembly working drawings and use dimensioning and specific annotations to meet ANSI standards. Students will also create 3D model prototypes used in CNC manufacturing. **Students will become familiar with the SolidWorks 3D modeling software. SolidWorks is used in the engineering departments of many universities across the country including Penn State, Duke, Stanford and MIT.**

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### FUNDAMENTALS OF ENGINEERING DESIGN AND DRAFTING

#### **(T1175) FUNDAMENTALS OF ENGINEERING DESIGN AND DRAFTING**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

A beginning, lab oriented, course where students will represent objects and ideas graphically and communicate this information to others using accepted engineering standards. Drafting problems will be solved using SolidWorks 3D modeling software and traditional drafting equipment. Topics that will be covered are single-view drawings, geometric constructions, orthographic projection drawings and isometric drawings. Students will complete various SolidWorks tutorials to become comfortable creating and editing 3D parametric models. Students will be evaluated on their drawings, projects and classroom performance.

### HONORS COMPUTER AIDED DRAFTING II – For College Credit

#### **(T1151) HONORS COMPUTER AIDED DRAFTING II**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: The student must have had a "B" or better in Computer Aided Drafting I

This advanced computer aided drafting course is recommended for students interested in pursuing a career in engineering, engineering technology, computer aided drafting technology or technical related fields implementing engineering design. **Students will become highly skilled in the use of the SolidWorks 3D modeling software. Students will have the opportunity to work towards achieving the internationally recognized Certified SolidWorks Associate – Mechanical Design certification. SolidWorks is used in the engineering departments of many universities across the country including Penn State, Duke, Stanford and MIT.** Students will create and edit parametric 3D models, develop orthographic and assembly working drawings and use dimensioning and specific annotations to meet ANSI standards. Students will also create 3D model prototypes used in 3D printing or additive manufacturing.

### HONORS ELECTRONICS

#### **(T1160) HONORS ELECTRONICS (and ARDUINO-BASED PROGRAMMING)**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra II or higher

During this course of study, students will be learning about the fundamentals of electrical theory, components, and circuitry. Students will gain experience using computer simulations and breadboards to construct, test, and troubleshoot a variety of analog and digital circuits. Following the theory and application components of the course, students will learn how to program Arduino Microcontrollers utilizing a C-based programming language. Basic programming concepts will be discussed and implemented, including inputs/outputs, loops, logic, variables, and functions. The course will culminate with students researching and engineering an Arduino-based project of their choosing. **The Arduino portion of this course incorporates the use of SparkFun® Inventor Kits and the SIK Curriculum Guide.**

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### HONORS ENGINEERING DESIGN AND DEVELOPMENT

#### (T1165) HONORS ENGINEERING DESIGN AND DEVELOPMENT

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Completion of Computer Aided Drafting I is highly recommended but not required as a prerequisite.

This course is designed for 11<sup>th</sup> and 12<sup>th</sup> grade students interested in pursuing a career in engineering. This is an engineering research course in which students will work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The use of SolidWorks 3D design software helps the students design solutions to their open-ended engineering problem. This course also engages students in problem-solving and decision-making among people with different disciplinary perspectives, reflecting the current industry trend toward designing and developing products in cross-functional teams. Students will be exposed to such contemporary design and development issues as identifying customer needs, design for manufacturing, prototyping and industrial design. The students will use a set of product development techniques aimed at bringing together the marketing, design and manufacturing functions of a product design team. The team presents and defends their solution to a panel of peers and instructors.

### HONORS ROBOTICS I

#### (T1162) HONORS ROBOTICS I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra II or higher

In this course of study, students will explore the field of robotics, **including the programming of microcontrollers, the design of mechanical systems, and the industrial applications of robotic systems.** Students will collaborate with peers and utilize problem solving and critical thinking skills to design the mechanical systems and programming for both autonomous and joystick-controlled robots. Through these challenges, students will be exposed to mechanical concepts including gearing, torque, speed, traction, and drive trains, while also using sensors and actuators to interact with the environment. **This course is based upon curriculum developed by the Carnegie Mellon Robotics Academy and incorporates VEX Robotics® Kits and the RobotC® programming language.**

### HONORS ROBOTICS II

#### (T1163) HONORS ROBOTICS II

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Robotics I

In this course of study, students will build upon the programming and engineering skills developed in Robotics I. Students will explore these areas in greater depth through the study of advanced programming and mechanical concepts (including pneumatic systems). Through hands-on challenges, students will collaborate with peers in order to apply these concepts in the design and engineering of complex robotic systems. For successful completion of this course, students will need to demonstrate critical 21<sup>st</sup> century competencies in collaboration, problem solving, and critical thinking. This course utilizes the VEX® Robotics Kits and RobotC programming language.

# TECHNOLOGY AND ENGINEERING

## COURSE TITLE

## DESCRIPTION

### INTRODUCTON TO ENGINEERING AND TECHNOLOGY

#### (T1110) INTRODUCTION TO ENGINEERING AND TECHNOLOGY

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-10  
PREREQUISITE: None

### REMOTE TECHNOLOGY & ENGINEERING

#### (T1175R) REMOTE TECHNOLOGY & ENGINEERING

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 9-12  
PREREQUISITE: None

### ROBOTICS I

#### (T1161) ROBOTICS I

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 10-12  
PREREQUISITE: Algebra II or higher

Using hands-on experimentation and lab experiences, this course will allow the student to gain an understanding of basic terminology, principles and practical applications of several engineering and technological areas. This introductory course will cover topics such as, but not limited to, electronics, aerodynamics, engineering, stress analysis, and gearing.

This course is designed for remote learners to experience hands-on technology education in a virtual setting. Students will gain an understanding of basic terminology, principles, and practical applications of several technological and engineering areas. This introductory course will cover topics such as, but not limited to, electronics, CAD, graphic design, product packaging and structural design.

In this course of study, students will explore the programming of robots and design of mechanical systems. Through hands-on labs and challenges, students will learn how to program and build both autonomous and joystick-controlled robots. Throughout the course, students will apply mechanical concepts including gearing, torque, and speed while also using sensors to interact with the environment. **This course is based upon curriculum developed by the Carnegie Mellon Robotics Academy and incorporates VEX Robotics® Kits and the RobotC® programming language.**

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### WORLD LANGUAGE

To be eligible to take a World Language course, students must also be enrolled in a high school CCR or Honors level English course and maintain a “C” average or higher. NOTE: There is no world language requirement for high school graduation; however, most colleges require 2-3 consecutive years of the **same** world language.

#### **Grade 9**

French I, II

German I, II

Latin I, II

Spanish I, II

The Dark Ages

Word Origins

#### **Grade 10**

French I, II, III

German I, II, III

Latin I, II, III

Spanish I, II, III

The Dark Ages

Word Origins

#### **Grade 11**

French I, II, III

German I, II, III

Honors French IV

Honors German IV

Honors Latin IV – Literature

Honors Latin IV - Reading

Honors Spanish IV

Latin I, II, III

Spanish I, II, III

The Dark Ages

Word Origins

#### **Grade 12**

AP Spanish Language and Culture

French I, II, III

German I, II, III

Honors French IV

Honors French V

Honors German IV

Honors German V

Honors Latin IV – Literature

Honors Latin IV - Reading

Honors Spanish IV

Latin I, II, III

Spanish I, II, III

The Dark Ages

Word Origins



# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### AP SPANISH LANGUAGE AND CULTURE

(NCAA approved)

**(T0545A) AP SPANISH LANGUAGE AND CULTURE A**

**(T0545B) AP SPANISH LANGUAGE AND CULTURE B**

DETAILS: 2 Trimesters (**Trimester 1 and 2 only**)

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: Spanish I, II, III, and IV

AP Spanish Language and Culture A focuses on advanced proficiency of reading, writing, listening, speaking and cultural awareness. This course is designed to expose students to authentic language and culture via articles, videos and Internet sites. The main goal of the course is to improve one's fluency of communication and to increase cultural awareness of the Spanish-speaking world. The designated themes are family and community, personal and public identities and beauty and aesthetics. All of the instruction will be in Spanish, and students are required to use only the target language in class. **Summer enrichment is required.**

AP Spanish Language and Culture B continues the development of advanced proficiency in reading, writing, listening, speaking and cultural awareness via articles, videos and Internet sites. The main goal of the course is to improve one's fluency of communication and to increase cultural awareness of the Spanish-speaking world. The designated themes are science and technology, contemporary life and global challenges. All of the instruction will be in Spanish, and students are required to use only the target language in class. **Summer enrichment is required.**

### FRENCH I (NCAA approved)

**(T0511A) FRENCH I A**

**(T0511B) FRENCH I B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: None

The French I A student will be able to communicate with a French speaker by using basic skills. The student will speak using pronunciation and grammar functions understandable to native speakers, will write correctly what he can say, and will read and comprehend at a novice level. Topics of study include school, pastimes and family. The student will acquire a sensitivity to French culture and its value system which will prepare him/her to examine other cultures with the same sensitivity.

The French I B student will expand knowledge of vocabulary and grammar structures in order to understand, speak, read and write more proficiently in French. The student will acquire knowledge and skills relating to food, shopping, clothing and air travel. He/she will continue to examine and explore French practices regarding these topics. There is an expectation of increased usage of French by the end of the course.

### FRENCH II (NCAA approved)

**(T0512A) FRENCH II A**

**(T0512B) FRENCH II B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: French I

The French II A student will gain the ability to express his/her thoughts and opinions more spontaneously. More emphasis is placed on vocabulary in a variety of settings. Topic of study are travel, sports, and daily routine. Students will gain the grammar structures that enable them to describe events in the past. Cultural practices related to these topics will continue to be explored. There is an increased use of French in this course, and students are expected to use more French in the classroom

The French II B student will broaden his/her usage of vocabulary and grammar structures in order to articulate clearly events which have occurred in the past. Topics of study are health and fitness, cultural pastimes and technology applications. French artists and writers are introduced. The increased use of French by teacher and students will the foundation for developing fluency in spoken and written French.

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### **FRENCH III** (NCAA approved)

**(T0513A) FRENCH III A**

**(T0513B) FRENCH III B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10-12

PREREQUISITE: French I and II

The French III A student will acquire greater speaking and writing proficiency, cultural awareness and improved reading and listening skills. The majority of instruction is in French. Students are expected to speak predominantly French in class. While grammar instruction continues to be a part of the course study, emphasis is placed on readings from a variety sources, exposure to current events through French television and exploration of French activities of daily living such as banking, communication tools, food preparation and driving. Role play and discussion in French are key activities.

The French III B course is a study of the novel *Le Petit Prince* by Antoine de St. Exupéry. A novel rich in meaningful quotes, they form the vehicle for further study of grammar and vocabulary. Students will do extensive writing as they analyze aspects of the novel and relate them to their own personal lives. Instruction is conducted in French. Student discussion is conducted in French. Students will demonstrate understanding of concepts through their written and oral exposés.

### **GERMAN I** (NCAA approved)

**(T0521A) GERMAN I A**

**(T0521B) GERMAN I B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: None

German I A is an introductory course which emphasizes the development of good pronunciation and simple grammatical structure. Special attention is given to listening, speaking, reading and writing of simple sentences. Students will learn some vocabulary through songs and games and become familiar with some German customs and culture to include topics such as German food, greeting people, introducing oneself, talking about interests, likes and dislikes and expressing opinions, talking about one's family and getting to know some basic German culture.

German I B is an introductory course which emphasizes the development of good pronunciation and simple grammatical structure. Special attention is given to listening, speaking, reading, and writing of simple sentences. Students will learn some vocabulary through German songs, games and become familiar with some German customs and culture to include topics such as food, school, shopping and a German fairytale.

### **GERMAN II** (NCAA approved)

**(T0522A) GERMAN II A**

**(T0522B) GERMAN II B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: German I

Students in German II A strive toward greater fluency in speaking the German language. Emphasis is placed upon structure, grammar and syntax. Communicative activities are stressed. Short texts are read. German culture is explored through the study of some German fairytales to include the Bremen Town Musicians. Students will learn vocabulary through German songs and games.

Students in German II B strive toward greater fluency in speaking the German language. German culture is explored through the study of some German fairytales to include Rumpelstilzchen and through the theme of Americans in Munich, healthy living and food to include dining customs and mealtime expressions and explore a German city, some of its hotels and restaurants.

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### GERMAN III (NCAA approved)

(T0523A) GERMAN III A

(T0523B) GERMAN III B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10-12

PREREQUISITE: German I and II

German III A develops communicative skills and continues with more advanced grammar topics. Students are introduced to the reading of short literary works and some German fairytales to include Hungry Little Caterpillar and a Struwwelpeter story from Hofmann "Daumenlutscher". Students will explore the topics of German health care system, Countryside or City living, and learn to travel by plane to Germany, by train in Germany, be familiar with various lodging options and sightseeing options. It should lead to greater independence in speaking, reading, and writing skills. There will be at least one individual project and one class production of a German legend or fairytale. Vocabulary is learned through songs, games and skits.

German III B develops communicative skills and continues with more advanced grammar topics. Students are introduced to the reading of short literary works and some German fairytales to include The Frog King, Snow White & Little Red Riding Hood. It should lead to greater independence in speaking, reading, and writing skills. There will be at least one individual project and one class production of a German legend or fairytale.

### HONORS FRENCH IV (NCAA approved)

(T0514A) HONORS FRENCH IV A

(T0514B) HONORS FRENCH IV B

DETAILS: 2 Trimesters

CREDIT: 1.0 each

GRADE LEVEL: 11-12

PREREQUISITE: French III

This French IV A course is conducted exclusively in French. Students realize their potential in French through vocabulary, grammar, oral and written proficiency activities at an advanced level. The course is a study of French history from prehistoric times up to the French renaissance. Course work includes a survey of literature. Art, history and music will be explored through student-based projects. This course enables students to comprehend, speak, read and write in French with a high degree of proficiency.

This French IV B course is conducted exclusively in French. Students realize their potential in French through vocabulary, grammar, oral and written proficiency activities at an advanced level. The course is a study of French history of the seventeenth century focusing on French classical theatre. Students read the playwright Molière's *Bourgeois Gentilhomme*. Students will write and speak extensively in French as they explore the themes of the play. This course enables students to comprehend, speak, read and write in French with a high degree of proficiency.

### HONORS FRENCH V (NCAA approved)

(T0515A) HONORS FRENCH V A

(T0515B) HONORS FRENCH V B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: French IV

French V A is conducted exclusively in French. Students realize their potential in French through vocabulary, grammar, oral and written proficiency activities at an advanced level. The course is a study of French history from the Age of Enlightenment up to the twentieth century. Course work includes a survey of literature. Art, history and music will be explored through student-based projects. This course enables students to comprehend, speak, read and write in French with a high degree of proficiency.

French V B is conducted exclusively in French. Students realize their potential in French through vocabulary, grammar, oral and written proficiency activities at an advanced level. The course is a study of twentieth century literature. Students read the novelist Camus' *L'Etranger*. Students will write and speak extensively in French as they explore the themes of the novel. This course enables students to comprehend, speak, read and write in French with a high degree of proficiency.

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### **HONORS GERMAN IV** (NCAA approved)

**(T0524A) HONORS GERMAN IV A**

**(T0524B) HONORS GERMAN IV B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: German III

German IV A, through communicative approaches, stresses the development of student's skills in speaking, comprehending, reading and writing German. Literary texts are studied to learn more about German culture and to develop critical thinking skills. Writing exercises coordinated with the reading and with the advanced grammar topics are designed to lead the student to greater self-awareness and self-expression. Topics from both contemporary and classical German culture will also be discussed to include Wilhelm Tell and Switzerland, Personal and Public identities and literary work of Johann Wolfgang von Goethe's Dr. Faust. There will be at least one individual project and one class production of a German legend or fairytale.

German IV B, through communicative approaches, stresses the development of the student's skills in speaking, comprehending, reading, and writing German. Literary texts are studied to learn more about German culture and to develop critical thinking skills to include topics such as beauty and aesthetics and stereotypes. Writing exercises coordinated with the reading and with advanced grammar topics are designed to lead the student to greater self-awareness and self-expression to explore future career plans. Topics from both contemporary and classical German culture will also be discussed. There will be at least one individual project and one class production of a German legend or fairytale.

### **HONORS GERMAN V** (NCAA approved)

**(T0525A) HONORS GERMAN V A**

**(T0525B) HONORS GERMAN V B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: German IV

German V A is conducted exclusively in German. Students will study and act out Siegfried the Dragon Slayer, short stories in German, explore the cultural topics of family, the power of the media and the fairy tale sleeping beauty.

German V B is conducted exclusively in German through communicative approaches, stresses the development of the student's skills in speaking, comprehending, reading, and writing German. Literary texts about Sophie Scholl and the White Rose are studied to learn more about German culture and to develop critical thinking skills. Writing exercises coordinated with the reading and with advanced grammar topics are designed to lead the student to greater self-awareness and self-expression. Other topics include the environment, stereotypes and prejudices, family and community, technology and other global challenges such as the European Union and refugees.

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### **HONORS LATIN IV - LITERATURE** (NCAA approved)

#### **(T0534B) HONORS LATIN IV - LITERATURE**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Latin III

Students will translate, discuss and present research on pieces of authentic classical and medieval texts written in Latin. Topics will include historical and social events, structure and influence of Roman poetry, and impact of classical and medieval ideas. Subjects covered will either be Minority Religions in the Roman Empire and Survey of Latin Poets, or Ancient Science and the Comedy of Plautus.

### **HONORS LATIN IV - READING** (NCAA approved)

#### **(T0534A) HONORS LATIN IV - READING**

DETAILS: 1 Trimester  
CREDIT: 0.5  
GRADE LEVEL: 11-12  
PREREQUISITE: Latin III

Students will translate, discuss and present research on pieces of authentic classical and medieval texts written in Latin. Topics will include historical and social events, structure and influence of Roman poetry, and impact of classical and medieval ideas. Subjects covered will either be Selections from Vergil and the Fall of Roman Britain, or Selections from Ovid and the *Gesta Francorum's* account of the First Crusade.

### **HONORS SPANISH IV** (NCAA approved)

#### **(T0544A) HONORS SPANISH IV A** **(T0544B) HONORS SPANISH IV B**

DETAILS: 2 Trimesters  
CREDIT: 1.0  
GRADE LEVEL: 11-12  
PREREQUISITE: Spanish I, II, and III

In Spanish IV A students will synthesize and refine previously learned language skills to achieve higher proficiency in reading, writing, listening, speaking and culture. Through the study of history, contemporary life and geography, the student will develop a keener awareness and cultural perspective of the Spanish speaking world. All of the instruction will be in Spanish and students will be required to use only the target language in class. Specific units of study include Spain and the Andean countries of South America - Bolivia, Peru and Ecuador.

In Spanish IV B students will synthesize and refine previously learned language skills to achieve higher proficiency in reading, writing, listening, speaking and culture. Through the study of history, contemporary life and geography, the student will develop a keener awareness and cultural perspective of the Spanish speaking world. All of the instruction will be in Spanish and students will be required to use only the target language in class. Specific units of study include the Southern Cone of South America – Uruguay, Paraguay, Chile, Argentina- and Central America.

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### LATIN I (NCAA approved)

(T0531A) LATIN I A

(T0531B) LATIN I B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: None

The primary emphasis of Latin I A will be the study of grammar and vocabulary which will provide the students with training in accuracy, application, memory and reasoning. In Latin I-A, students will learn the forms and vocabularies for the common first and second declension nouns, prepositions, Latin sentence structure, adjectives and present and imperfect tense active verbs. The course will stress the correlation between English and Latin and will be a helpful as a preparation for the study of any modern language.

The primary emphasis of Latin I B will be the study of grammar and vocabulary which will provide the students with training in accuracy, application, memory and reasoning. In Latin I-B, students will learn the forms and vocabularies for the common second declension neuter nouns, and the future tense and perfect system of active verbs. Students will begin to read Latin prose, with a focus on the gods of Roman mythology. The course will stress the correlation between English and Latin and will be a helpful as a preparation for the study of any modern language.

### LATIN II (NCAA approved)

(T0532A) LATIN II A

(T0532B) LATIN II B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: Latin I

In Latin II A students will review the basic skills learned in Latin I and complete the study of Latin nouns and pronouns and will expand their ability to read Latin prose. Students will learn the forms and vocabularies of the third, fourth and fifth declension nouns and all of the common Latin pronouns. Students will read Latin stories concerning the career of the hero Hercules and descriptive paragraphs about Roman farm life and the Roman army. Continued stress will be placed on the correlation between English and Latin vocabulary and structures.

In Latin II B students will learn to apply their grammatical and vocabulary knowledge to the reading of texts written by ancient Roman authors. First, they will learn to use passive verbs and the comparison of adjectives and adverbs, then they will proceed to read the writings of Julius Caesar in the original Latin prose. Furthermore, the students will learn to recite a selection of Latin verse from memory. Continued stress will be placed on the connections between Latin and the ancient world with English and the modern world.

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### LATIN III (NCAA approved)

(T0533A) LATIN III A

(T0533B) LATIN III B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10-12

PREREQUISITE: Latin I and II

In Latin III A students will complete the formal study of Latin grammar and will read short selections of Latin prose. After reviewing the grammar learned in Latin 1 and 2, students will learn the forms and uses of the subjunctive mood of the verb, the range of Latin participles and infinitives, and a selection of minor grammar topics. Continued stress will be placed on the connections between Latin and the ancient world with English and the modern world.

In Latin III B students will apply their knowledge of Latin vocabulary and grammar to reading the works of Cicero and will become acquainted with the ancient science of Rhetoric. Students will read selections from Cicero's *First Oration Against Catiline*, a major masterpiece of world literature. They will learn a variety of Figures of Speech, Syntax and Rhetoric, developed in the ancient world and still used today in many media. Students will then read a selection of Latin prose authors from the 2<sup>nd</sup> century B.C. to 8<sup>th</sup> century A.D. Finally, students will apply grammatical and rhetorical knowledge by writing Latin prose.

### SPANISH I (NCAA approved)

(T0541A) SPANISH I A

(T0541B) SPANISH I B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: Must have a C or higher in current or most recent English course.

The Spanish I A student will acquire basic vocabulary and grammar skills in order to communicate orally and in writing. These skills include describing people, expressing school interests, and discussing classes. Also, students will comprehend the spoken language at a novice level. They will explore the Hispanic culture and its value system. It is expected that students have basic knowledge of English grammar.

The Spanish I B student will increase basic vocabulary and grammar skills in order to read, write, speak and understand the target language. Students will acquire knowledge and skills relating to restaurants, family, and hobbies in both the present and past tense. They will continue exploring Hispanic culture and traditions through readings and geography study. There is an expectation of increased use of the target language in the classroom.

### SPANISH II (NCAA approved)

(T0542A) SPANISH II A

(T0542B) SPANISH II B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: Spanish I

The Spanish II A student will develop the ability to express himself or herself in a variety of settings. Students will create a solid foundation of vocabulary and grammar by reviewing present tense verbs. In addition, a cultural focus of travel and daily routine will be implemented throughout the grammar and vocabulary study. There is an increased use of the target language throughout instruction and a higher expectation that students use Spanish in the classroom.

Through the continued study of the present tense, the Spanish II B student will be able to navigate through a train station and effectively communicate in a restaurant. The Spanish II B student will acquire the ability to describe childhood and completed events by implementing the past tense. The cultural focus of travel and food will be discussed and studied throughout the course. Speaking, reading, writing and understanding the language will continue to support the increased use of Spanish in the classroom. The increased use of spoken Spanish, by both the student and the teacher, will create a more fluent environment for language learning.

# WORLD LANGUAGE

## COURSE TITLE

## DESCRIPTION

### **SPANISH III** (NCAA approved)

#### **(T0543A) SPANISH III A**

#### **(T0543B) SPANISH III B**

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10-12

PREREQUISITE: Spanish I and II

Spanish III A students will acquire greater speaking and writing proficiency, cultural awareness and improved reading and listening skills. Most of the instruction will be in Spanish, and students will be expected to predominantly use the target language in class. Students will be able to communicate in various settings such as the bank and a hotel, and will explain food preparation, holidays and traditions in the target language. Also, they will express hopes, emotions, and give advice and discuss what they will/would do in various situations.

Spanish III B students will continue their exploration of the Spanish language via the study of art and literature. Students will describe famous Spanish and Mexican artists, their paintings and styles. They will critique famous works of art and will create their own; replicating the style of the artist studied. Students will read excerpts from Miguel de Cervantes's Don Quixote de La Mancha, the most famous work of Spanish literature. Additionally, students will study professions and will fully describe a profession in which they are interested.

### **THE DARK AGES** (NCAA approval pending)

#### **(T0555) THE DARK AGES**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: None

The course will trace the events of the years 390 AD to 1100 AD in Western Europe (i.e., from the Fall of the Western Roman Empire until the First Crusade) in order to explain the origins of the English, Spanish, French and Italian nations, languages and literatures and the impact of the Vikings and Normans on those origins. We will also see the origins of various modern customs, ideas and institutions that arose during this time.

### **WORD ORIGINS**

#### **(T0550) WORD ORIGINS**

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: None

By examining the rules of Historical Linguistics, and the roots, prefixes and suffixes from Anglo-Saxon, Old Norse, Greek and Latin, the student will gain the ability to analyze unfamiliar words and thus increase general vocabulary, reading and spelling ability. The student will also learn the history of the English language and its place in the larger family of Indo-European languages.

This course will be especially helpful for those pursuing a career such as Law, Medicine, Science, Education or the Humanities where there is a significant amount of technical vocabulary to master. It will also help general reading ability and preparation for standardized tests, which are heavily vocabulary based.

Students do **not** need to have any previous or current experience with any world language to take this course.