

Dallastown Area High School

Course Selection Guidebook

2023-2024



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



DALLASTOWN AREA HIGH SCHOOL

700 NEW SCHOOL LANE
DALLASTOWN, PA 17313
717-244-4021

PRINCIPAL

DR. MISTY D. WILSON

ASSISTANT PRINCIPALS

DR. CHAD M. BUMSTED (Ri-Z)
REBEKAH L. MCCAULEY (Gi-Rh)
DR. BRIAN C. RAAB (A-Gh)

DEAN OF STUDENTS

ADAM N. HOSTETTER

SCHOOL RESOURCE OFFICER

OFFICER BRIAN DALKIEWICZ

ATHLETIC DIRECTOR

JOSH LUCKENBAUGH

WORKFORCE, CAREER, AND COLLEGE COUNSELOR

EMMA MUMMERT

SCHOOL COUNSELORS

GARRETT BOOP (Ke-Me)
KERRIS BOUCHILLON (Str-Z)
KRISTEN COOPER (Ri-Sto)
LAURA DIXON (Mi-Rh)
JILL NOBILE (Ch-Gh)
DR. ALISON WABNIK (A-Ca)
LAUREN WALCK (Gi-Ka)

COUNSELING SECRETARIES

KIM DELP, ext. 3532
MONICA TYSON, ext. 3530

COUNSELING FAX (866) 938-6084

COURSE CHANGE FORM.....	3
COLLEGE/CAREER EDUCATION OPPORTUNITIES	
✚ EARLY GRADUATION.....	4
✚ JOB SHADOWING.....	4
✚ WORK TRANSITION.....	4
GRADUATION REQUIREMENTS.....	5
COURSE LEVELING.....	6
NCAA.....	7
TRIMESTER LOCKED COURSES.....	10
COURSE TITLES & DESCRIPTIONS	
ART.....	11
BUSINESS.....	17
CAREER AND LEADERSHIP.....	22
✚ CAREER INTERNSHIP.....	23
✚ DUAL ENROLLMENT.....	23
✚ HACC ACADEMY.....	23
✚ PRE-APPRENTICESHIP.....	23
✚ TEACHER ASSISTANT.....	23
✚ YCST PART-TIME.....	24
✚ JROTC.....	24
ENGLISH.....	27
FAMILY & CONSUMER SCIENCE.....	37
GIFTED SERVICES.....	39
HEALTH & PHYSICAL EDUCATION.....	40
MATHEMATICS.....	46
PERFORMING ARTS.....	54
SCIENCE.....	60
SOCIAL STUDIES.....	69
TECHNOLOGY & ENGINEERING.....	77
WORLD LANGUAGE.....	86

COURSE CHANGE FORM

Course Change Form

Please note the following guidelines when submitting a request for a course change.

Course Change Requests

Students can submit a request for a course change by completing this form. All requests must be submitted to the Counseling Office before April 21st. A *Course Change Form* must be submitted for *each* specific change being requested. Course change requests will only be accepted if the *Course Change Form* has been completed in its entirety, including all required signatures. Students requesting a course change after **April 21st** must complete the *Course Change Form* **AND** schedule a meeting with their counselors.

Course Change Policy

(After First Day of School)

If you would like to request a course change (**drop and/or add**) for a **first trimester** class, you must do so within the **first three days** of the **first** trimester. Course changes for the remainder of the year (tris 2 and 3) must be made **by the 30th day of the first trimester**. This includes study halls as well.

- ◇ No course change requests will be permitted based on teacher preference.
- ◇ All requests are considered on a need and space-available basis, so there are no guarantees that a request will be granted.
- ◇ Students are reminded that some AP and Honors level courses require summer work. It is the student's responsibility to acquire and complete this work in the event of a course change.
- ◇ If a situation requires a course change after the appropriate course change window closes, the student will lose the credit value of the course and receive a failing grade of a *Withdrawal Fail (WF)* on his or her transcript. A failing grade **will** be used in calculating the student's grade point average.



Counseling Office

Dallastown Area High School
700 New School Lane
Dallastown, PA 17313
(717) 244-4021 ext. 3530
Fax: (866) 938-6084

School Counselors

Dr. Alison Wabnik (A-Ca)
Department Chairperson
Mrs. Jill Nobile (Ch-Gh)
Mrs. Lauren Walck (Gi-Ka)
Mr. Garrett Boop (Ke-Me)
Mrs. Laura Dixon (Mi-Rh)
Mrs. Kristen Cooper (Ri-Sto)
Mrs. Kerris Bouchillon (Str-Z)
Mrs. Emma Mummert - *Workforce, Career,
& College*

Counseling Secretaries

Mrs. Monica Tyson, Appointments
Mrs. Kim Delp, Transcripts

Course Change Form

Student Name: _____ I.D. Number: _____ Date: _____

Student Phone Number: _____ Parent/Guardian Phone Number: _____

Counselor: Boop Bouchillon Cooper Dixon Nobile Wabnik Walck Grade (2023-24): 9 10 11 12

Drop Request: _____ Add Request: _____
(course) (course)

Parent/Guardian Signature: _____ Date: _____

Dropping Teacher Signature: _____ Date: _____

Adding Teacher Signature: _____ Date: _____

Counselor Signature: _____ Date: _____

Return to the Counseling Office.

COLLEGE/CAREER EDUCATION OPPORTUNITIES

EARLY GRADUATION (12):

Students have the opportunity to graduate after the first or second trimester of their senior year, provided they have satisfactorily met all graduation requirements as outlined by DASD.

Step 1: Student and parent/guardian must meet with high school counselor to request an *Early Graduation Application*.

Step 2: An *Early Graduation Application* must be completed and submitted to the high school counselor. The application must include student's reason(s) for early graduation and postsecondary plan as well as student's intent to participate in commencement ceremonies.

Step 3: Student must work together with their school counselor to create a schedule of classes/activities that will allow for the completion of requirements by the proposed date of graduation, in which the student must successfully complete to graduate as proposed.

It should be noted that students who elect to graduate at the end of the first or second trimester of their senior year *may not participate* in any school co-curricular and extra-curricular activities (i.e., clubs, athletics, musical ensembles/musical performance groups, prom, etc.) beyond the end date of the respective trimester in which they graduate.

JOB SHADOWING (11-12):

11th and 12th 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.

WORK TRANSITION (12):

This experience is designed for senior students who are interested in working during the school day. Participants will need to work with their counselor and employer to complete all needed paperwork for this opportunity. Students' requirements of this course include proper attendance in accordance with their individual work schedules as well as periodic check-ins throughout the trimester with Mrs. Mummert.

GRADUATION REQUIREMENTS

DALLASTOWN AREA HIGH SCHOOL GRADUATION REQUIREMENTS

	Required Credits	Required Courses
English	4 credits	English I (9) English II (10) English III plus English elective or AP Lang/Comp (11)
Math	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)
Science	3 credits	Gen Science or Hon Chemistry (9) Biology or AP Biology (10)
Social Studies	3 credits	World Cultures or AP Human Geography (9) US History or AP US History (10) Government and Politics plus SS Elective, or AP Gov/Politics (11 or 12)
Humanities	2 credits	Humanities credits include World Languages, Music, Art, Engineering & Technology, FACS, or English and Social Studies credits exceeding graduation requirements.
Physical Education	1.5 credits (3 courses)	
Financial Literacy/Econ	0.5 credit	
Personal Health	0.5 credit	
Electives	5.5 credits	
Senior Portfolio	1.0 credit	
Grand Total	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.)

TEST SCORES

Every time you register for the **SAT** or **ACT**, use code **9999** to send your scores directly to the Eligibility Center from the testing agency. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscore from each test is used to give you the best possible score.

** More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Spring2023.*

CORE-COURSE LIST

Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist. No core-course list means courses taken from that high school will not count for NCAA eligibility. If your high school does not have a list, you risk being ineligible to play in college.

NONTRADITIONAL AND ONLINE COURSES

Nontraditional courses are taught online or through distance learning, hybrid/blended, independent study, individualized instruction, correspondence or similar means.

These types of courses may be acceptable for use in the NCAA initial-eligibility certification process; however, it is important to make sure the nontraditional program has been approved and appears on [your school/program's list](#) of NCAA-approved core courses.

BE AHEAD OF THE GAME

- » Plan to register with the NCAA Eligibility Center at eligibilitycenter.org before your freshman year of high school. Visit on.ncaa.com/RegChecklist to help guide you through the registration process.
- » After six semesters of high school, ask your high school counselor from each school you have attended to upload an official transcript to your Eligibility Center account.

ADDITIONAL RESOURCES

- » [DII Academic Requirements flyer](#).
- » [DIII Amateurism flyer](#).
- » [International Initial-Eligibility flyer](#).

DIVISION I QUALIFIER SLIDING SCALE					
Core GPA	SAT*	ACT Sum*	Core GPA	SAT*	ACT Sum*
3.550	400	37	2.750	810	59
3.525	410	38	2.725	820	60
3.500	430	39	2.700	830	61
3.475	440	40	2.675	840	61
3.450	460	41	2.650	850	62
3.425	470	41	2.625	860	63
3.400	490	42	2.600	860	64
3.375	500	42	2.575	870	65
3.350	520	43	2.550	880	66
3.325	530	44	2.525	890	67
3.300	550	44	2.500	900	68
3.275	560	45	2.475	910	69
3.250	580	46	2.450	920	70
3.225	590	46	2.425	930	70
3.200	600	47	2.400	940	71
3.175	620	47	2.375	950	72
3.150	630	48	2.350	960	73
3.125	650	49	2.325	970	74
3.100	660	49	2.300	980	75
3.075	680	50	2.299	990	76
3.050	690	50	2.275	990	76
3.025	710	51	2.250	1000	77
3.000	720	52	2.225	1010	78
2.975	730	52	2.200	1020	79
2.950	740	53	2.175	1030	80
2.925	750	53	2.150	1040	81
2.900	750	54	2.125	1050	82
2.875	760	55	2.100	1060	83
2.850	770	56	2.075	1070	84
2.825	780	56	2.050	1080	85
2.800	790	57	2.025	1090	86
2.775	800	58	2.000	1100	86

ACADEMIC REDSHIRT

Want more information? Visit ncaa.org/playcollegesports.

CONTACT THE NCAA ELIGIBILITY CENTER

U.S. and Canada (except Quebec): 877-262-1492
Monday-Friday, 9 a.m. to 5 p.m. Eastern time

[@ncaaec](https://twitter.com/ncaaec) [@playcollegesports](https://www.instagram.com/playcollegesports) [@ncaaec](https://www.facebook.com/ncaaec)

DIVISION II ACADEMIC REQUIREMENTS

To study and compete at a **Division II school**, you must earn 16 NCAA-approved **core-course credits**, earn a corresponding test score* that matches your **core-course GPA** and submit your final transcript with proof of graduation to the Eligibility Center.

CORE-COURSE REQUIREMENTS

Earn 16 NCAA-approved core-course credits in the following areas:

ENGLISH	MATH (Algebra I or higher)	SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, world language or non-doctrinal religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

QUALIFIER

As a Division II qualifier, you may practice, compete and receive an athletics scholarship during your first year of full-time enrollment at an NCAA Division II school.

- » Earn 16 NCAA-approved core-course credits in the right areas.
- » Earn a corresponding test score that matches your **core-course GPA** (minimum 2.2) on the **Division II sliding scale**.*
- » Submit your final transcript with proof of graduation to the Eligibility Center.

PARTIAL QUALIFIER

If you have not met all of the Division II academic standards, you will be deemed a partial qualifier. As a partial qualifier, you may practice and receive an athletics scholarship, but may NOT compete, during your first year of full-time enrollment at an NCAA Division II school.

* More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Spring2023.



 DIVISION II

MAKE IT YOURS.

TEST SCORES

Every time you register for the [SAT](#) or [ACT](#), use code **9999** to send your scores directly to the Eligibility Center from the testing agency. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscore from each test is used to give you the best possible score.

**More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Spring2023.*

CORE-COURSE LIST

Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist. No core-course list means courses taken from that high school will not count for NCAA eligibility. If your high school does not have a list, you risk being ineligible to play in college.

NONTRADITIONAL AND ONLINE COURSES

Nontraditional courses are taught online or through distance learning, hybrid/blended, independent study, individualized instruction, correspondence or similar means.

These types of courses may be acceptable for use in the NCAA initial-eligibility certification process; however, it is important to make sure the nontraditional program has been approved and appears on [your school/program's list](#) of NCAA-approved core courses.

BE AHEAD OF THE GAME

- » Plan to register with the NCAA Eligibility Center at eligibilitycenter.org before your freshman year of high school. Visit on.ncaa.com/RegChecklist to help guide you through the registration process.
- » After six semesters of high school, ask your high school counselor from each school you have attended to upload an official transcript to your Eligibility Center account.
- » For more information on Division II, visit ncaa.org/D2.

ADDITIONAL RESOURCES

- » [DI Academic Requirements flyer](#).
- » [DIII Amateurism flyer](#).
- » [International Initial-Eligibility flyer](#).

DIVISION II 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	560	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

Want more information? Visit ncaa.org/playcollegesports.

CONTACT THE NCAA ELIGIBILITY CENTER

U.S. and Canada (except Quebec): 877-262-1492
Monday-Friday, 9 a.m. to 5 p.m. Eastern time

[@ncaaec](#) [@playcollegesports](#) [@ncaaec](#)

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 2024-2025)
AP Microeconomics – Tri 1 & 2 (offered 2023-2024)
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 US Government/Politics – Tri 1 & 2
AP US 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

(TO640A) AP STUDIO ART A
(TO640B) AP STUDIO ART B

DETAILS: 2 Trimesters (Trimester 1 & 2 only)

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: Students must submit a portfolio of work to be reviewed for acceptance into AP Studio Art. It is required that a student have a B average or better in an upper-level art class, like Drawing II, and receive written approval from the art teacher

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 an upper-level art class. AP Studio Art students will experience an independent, 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

(TO665) 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

(TO657) 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 and visual literacy in the Western and Non-Western world. Coursework includes art criticism, aesthetic perceptions, cultural and religious styles, and trends. Students are expected to complete extensive reading, analytical writing, class discussions and research-based presentations at a rigorous pace that covers the first known cave paintings to modern day art. Although this is an academic course, some art making will occur. **Participation in an art show is a course requirement.**

COURSE TITLE

DESCRIPTION

CERAMICS I**(TO667) 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 from the art teacher

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**(TO668) 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 from the art teacher

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**(TO669) 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 from the art teacher

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**(TO658) COMPUTER GRAPHIC DESIGN****DETAILS:** 1 Trimester**CREDIT:** 0.5**GRADE LEVEL:** 9-12**PREREQUISITE:** None

Computer Graphic Design 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**(TO659) 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 from the art teacher

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**(TO660) 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**(TO661) 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 from the art teacher

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**(TO610) 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 from the art teacher

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**(TO620) 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 from the art teacher

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**(TO630) 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

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**(TO611) 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 from the art teacher

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**(TO621) 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 from the art teacher

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**(TO631) 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 from the art teacher

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**(TO651) 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

Career Skills: Unlocking Your Future

Computer Skills for Success

Internet and Web Design

Introduction to Business

Grade 10

Accounting I

Career Skills: Unlocking Your Future

Computer Skills for Success

Entrepreneurship

Fashion Merchandising

International Business

Internet and Web Design

Introduction to Business

Marketing and Sales

Grade 11

Accounting I

Athletic Administration

Career Skills: Unlocking Your Future

Computer Skills for Success

Entrepreneurship

Fashion Merchandising

Future Business Leader

Honors Accounting II

Honors Digital Marketing

Grade 11 (continued)

International Business

Internet and Web Design

Introduction to Business

Marketing & Sales

Grade 12

Accounting I

Athletic Administration

Career Skills: Unlocking Your Future

Computer Skills for Success

Entrepreneurship

Fashion Merchandising

Future Business Leader

Honors Accounting II

Honors Digital Marketing

International Business

Internet and Web Design

Marketing & Sales

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: "C" or better in Algebra I

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.

CAREER SKILLS: UNLOCKING YOUR FUTURE

(T0775) CAREER SKILLS: UNLOCKING YOUR FUTURE

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.

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.

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.

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.

COURSE TITLE

DESCRIPTION

HONORS DIGITAL MARKETING

(T0738) HONORS DIGITAL MARKETING

DETAILS: 1 Trimester

CREDIT: 0.5

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.

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 and WEB DESIGN

(T0765) INTERNET and WEB DESIGN

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: None

The Internet and Web Design course provides students the opportunity to be producers of the World Wide Web, rather than just consumers. In this course, students will learn foundational principles of computers, networks and website design and development. They will apply these concepts in a project-based learning environment, where they will create online experiences for personal applications and local businesses. Students will also learn basic web development coding languages, including HTML and CSS.

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.

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.

CAREER AND LEADERSHIP

COURSE TITLE

DESCRIPTION

CAREER 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

Grade 11

Career Internship

Dual Enrollment

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

Pre-Apprenticeship

Teacher Assistant

YCST Part-Time Program

Grades 12

Career Internship

Dual Enrollment

HACC Academy

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

Pre-Apprenticeship

Teacher Assistant

YCST Part-Time Program

CAREER AND LEADERSHIP

COURSE TITLE

DESCRIPTION

CAREER INTERNSHIP

(T1310) CAREER INTERNSHIP

DETAILS: 1 Trimester
CREDIT: 0.5
GRADE LEVEL: 11 and 12
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 are required to check in with an assigned school representative at least two times per trimester. **Daily attendance to the internship is a requirement.** Juniors will spend one trimester at the off-campus location, and Seniors can spend up to three trimesters at an off-campus location, 0.5 credits will be earned for each interning period.

DUAL ENROLLMENT

DETAILS: Fall and/or Spring semesters
CREDIT: 1.0
GRADE LEVEL: 11 and 12
PREREQUISITE: None

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 HACC York Campus, Penn State York Campus, York College of PA, Mansfield University, Millersville University, Central Penn College, 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. For more information, please see the Counseling Office.

HACC ACADEMY

DETAILS: 3 Trimesters
CREDIT: 1.0 or 2.0 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), Physician Office Assistant (two trimesters) 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.)

PRE-APPRENTICESHIP PROGRAMS

DETAILS: 2-3 Trimesters
CREDIT: 0.5
GRADE LEVEL: 11 and 12
PREREQUISITE: None

The purpose of this offering is to provide a practical, non-paid apprenticeship for students who are interested in exploring different career goals. Areas in which these apprenticeships are offered include electrical, manufacturing, and construction. Dallastown Area High School partners with a variety of local providers including York Builders Association, Manufacturers' Association, and York Electricians. Course requirements include providing own transportation and attending the sessions monthly.

TEACHER ASSISTANT

(T1309) TEACHER ASSISTANT

DETAILS: 1 Trimester
CREDIT: 0.5
GRADE LEVEL: 11 and 12
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. **Daily attendance is a course requirement.**

***Only ONE Teacher Assistant experience per year.**

CAREER AND LEADERSHIP

COURSE TITLE

DESCRIPTION

YCST PART-TIME PROGRAM

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

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.

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

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.

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 (Thursdays) 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.

CAREER AND LEADERSHIP

COURSE TITLE

DESCRIPTION

(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.

(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: 11-12
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: 11-12
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 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: 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: 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

*Theater Study

Grade 10

*Advanced Reading and Study Skills

English II

Honors English II

Intro to Journalism/Mass Media

Journalism II: Digital Media

Public Speaking

*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

Journalism II: Digital Media

Mythology

Public Speaking

*SAT/ACT Prep

Sports Literature and Writing

*Theater Study

Writing for the Workplace

***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

*Advanced Reading and Study Skills

African American Literature

American Literature

AP English Language and Composition

AP English Literature and Composition

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

Journalism II: Digital Media

Mythology

Public Speaking

Sports Literature and Writing

*Theater Study

Writing for the Workplace

***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

(TO150) 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**

(TO134) AFRICAN AMERICAN LITERATURE

DETAILS: 1 Trimester
CREDIT: 0.5
GRADE LEVEL: 11-12
PREREQUISITE: 9th & 10th 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)

(TO147) 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)

(TO120A) AP ENGLISH LANGUAGE AND COMP A
(TO120B) AP ENGLISH LANGUAGE AND COMP B

DETAILS: 2 Trimesters (Trimester 1 & 2 only)

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: English II

AP ENGLISH LITERATURE AND COMPOSITION (NCAA approved)

(TO119A) AP ENGLISH LITERATURE AND COMP A
(TO119B) AP ENGLISH LITERATURE AND COMP B

DETAILS: 2 Trimesters (Trimester 1 & 2 only)

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: English III or AP Language and Composition

BRITISH LITERATURE (NCAA approved)

(TO121) 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)

(TO142) 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)

(TO130) 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)

(TO143) 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)

(TO103A) ENGLISH I A (TO103B) 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)

(TO108A) ENGLISH II A
(TO108B) 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)

(TO113) 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 20th 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

(TO132) HONORS AFRICAN AMERICAN LITERATURE

DETAILS: 1 Trimester
CREDIT: 0.5
GRADE LEVEL: 11-12
PREREQUISITE: 9th & 10th 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)

(TO122) 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

(TO139) 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)

(TO105A) HONORS ENGLISH I A

(TO105B) 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)

(TO110A) HONORS ENGLISH II A

(TO110B) 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)

(TO115) 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 20th 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)

**(TO129) 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)

(TO124) HONORS PLAYS AND PLAYWRIGHTS

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

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)

(TO133) 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)

(TO153) 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

JOURNALISM II: DIGITAL MEDIA (NCAA approved)

(TO159) JOURNALISM II: 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 maintaining all aspects of the school newspaper, The Beacon. This will include writing articles, publishing them on the website, maintaining social media outlets, examining analytics, photojournalism, and live coverage of events. Students will also be exposed to podcasting, video, and graphic design. 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.

MYTHOLOGY (NCAA approved)

(TO128) 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.

PUBLIC SPEAKING (NCAA approved)

(TO160) 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 21st century will be emphasized.

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

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.

COURSE TITLE

DESCRIPTION

SPORTS LITERATURE AND WRITING (NCAA approved)

(TO145) SPORTS LITERATURE AND WRITING

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

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.

THEATER STUDY

(TO165) THEATER STUDY *(*does not satisfy English graduation requirement)*

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

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 theatric 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.**

WRITING FOR THE WORKPLACE

(TO152) WRITING FOR THE WORKPLACE

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

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.

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

(TO811A) CHILD CARE AND DEVELOPMENT I A
(TO811B) CHILD CARE AND DEVELOPMENT I B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: None

CHILD CARE AND DEVELOPMENT II

(TO812A) CHILD CARE AND DEVELOPMENT II A
(TO812B) 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

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 childcare 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 childcare 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 graded as an O/S/U and does not calculate into the GPA. This course is offered to students identified as mentally gifted in accordance with the Pennsylvania Department of Education's Chapter 16 Guidelines. Students will plan and execute an independent study, moderate class discussions, and opt to participate in a book study.

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 & Physiology: Musculoskeletal & Terminology

Anatomy & Physiology: Cardiovascular Tissues

Honors Anatomy & Physiology: Musculoskeletal & Terminology

Honors Anatomy & Physiology: Cardiovascular Tissues

Health course:

- Personal Health

Physical Education course:

- Freshman Physical Education

Grade 10, Grade 11, and Grade 12

Anatomy & Physiology: Musculoskeletal & Terminology

Anatomy & Physiology: Cardiovascular Tissues

Anatomy & Physiology: How We Think, How We Move?

Anatomy & Physiology: Digestion, Nephrology, and Embryology

Honors Anatomy & Physiology: Musculoskeletal & Terminology

Honors Anatomy & Physiology: Cardiovascular Tissues

Honors Anatomy & Physiology: How We Think, How We Move?

Honors Anatomy & Physiology: Digestion, Nephrology, & Embryology

Health courses:

- First Aid/CPR and Athletic Training
- Personal Health

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 & PHYSIOLOGY: MUSCULOSKELETAL & TERMINOLOGY (NCAA approved)

(T0960A) ANATOMY & PHYSIOLOGY: MUSCULOSKELETAL & TERMINOLOGY

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

ANATOMY & PHYSIOLOGY: CARDIOVASCULAR TISSUES (NCAA approved)

(T0960B) ANATOMY & PHYSIOLOGY: CARDIOVASCULAR TISSUES

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

ANATOMY & PHYSIOLOGY: HOW WE THINK, HOW WE MOVE? (NCAA approved)

(T0962C) ANATOMY & PHYSIOLOGY: HOW WE THINK, HOW WE MOVE?

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

ANATOMY & PHYSIOLOGY: DIGESTION, NEPHROLOGY, & EMBRYOLOGY (NCAA approved)

(T0962D) ANATOMY & PHYSIOLOGY: DIGESTION, NEPHROLOGY, & EMBRYOLOGY

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 & PHYSIOLOGY: MUSCULOSKELETAL & TERMINOLOGY (NCAA approved)

**(T0961A) HONORS ANATOMY & PHYSIOLOGY:
MUSCULOSKELETAL & TERMINOLOGY**

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

HONORS ANATOMY & PHYSIOLOGY: CARDIOVASCULAR TISSUES (NCAA approved)

**(T0961B) HONORS ANATOMY & PHYSIOLOGY:
CARDIOVASCULAR TISSUES**

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

HONORS ANATOMY & PHYSIOLOGY: HOW WE THINK, HOW WE MOVE? (NCAA approved)

**(T0963C) HONORS ANATOMY & PHYSIOLOGY: HOW
WE THINK, HOW WE MOVE?**

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

HONORS ANATOMY & PHYSIOLOGY: DIGESTION, NEPHROLOGY, & EMBRYOLOGY (NCAA approved)

**(T0963D) HONORS ANATOMY & PHYSIOLOGY:
DIGESTION, NEPHROLOGY, & EMBRYOLOGY**

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 additional 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.

Ability to earn college credits in First Aid/CPR & Athletic Training is available.

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.**

PHYSICAL EDUCATION (REQUIRED):

FRESHMAN PHYSICAL EDUCATION

(T0953) FRESHMAN PHYSICAL EDUCATION

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

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.

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

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.

HEALTH AND PHYSICAL EDUCATION

COURSE TITLE

DESCRIPTION

FALL LIFETIME SPORTS

(TO956B) FALL LIFETIME SPORTS

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

FITNESS ACTIVITIES

(TO956C) FITNESS ACTIVITIES

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

INTERNATIONAL GAMES

(TO956D) INTERNATIONAL GAMES

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

SPRING LIFETIME SPORTS

(TO956E) SPRING LIFETIME SPORTS

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

STRENGTH TRAINING

(TO956F) STRENGTH TRAINING

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

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.

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.

HEALTH AND PHYSICAL EDUCATION

COURSE TITLE

DESCRIPTION

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

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.

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: Freshman Physical Education

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.

WINTER LIFETIME SPORTS

(T0956J) WINTER LIFETIME SPORTS

DETAILS: 1 Trimester (Trimester 2 only)

CREDIT: 0.5

GRADE LEVEL: 10-12

PREREQUISITE: Freshman Physical Education

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 and II

Geometry

Honors Algebra II

Honors Geometry

Honors Precalculus

SAT/ACT Prep

Grade 11

Academic Algebra II

Academic Geometry

Algebra II

AP Calculus AB

AP Calculus BC

AP Computer Science

AP Computer Science Principles

AP Statistics

Computer Programming I and II

Grade 11 (continued)

Cryptology

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 and II

Cryptology

Geometry

Precalculus

Probability & Statistics

Tech Prep Math

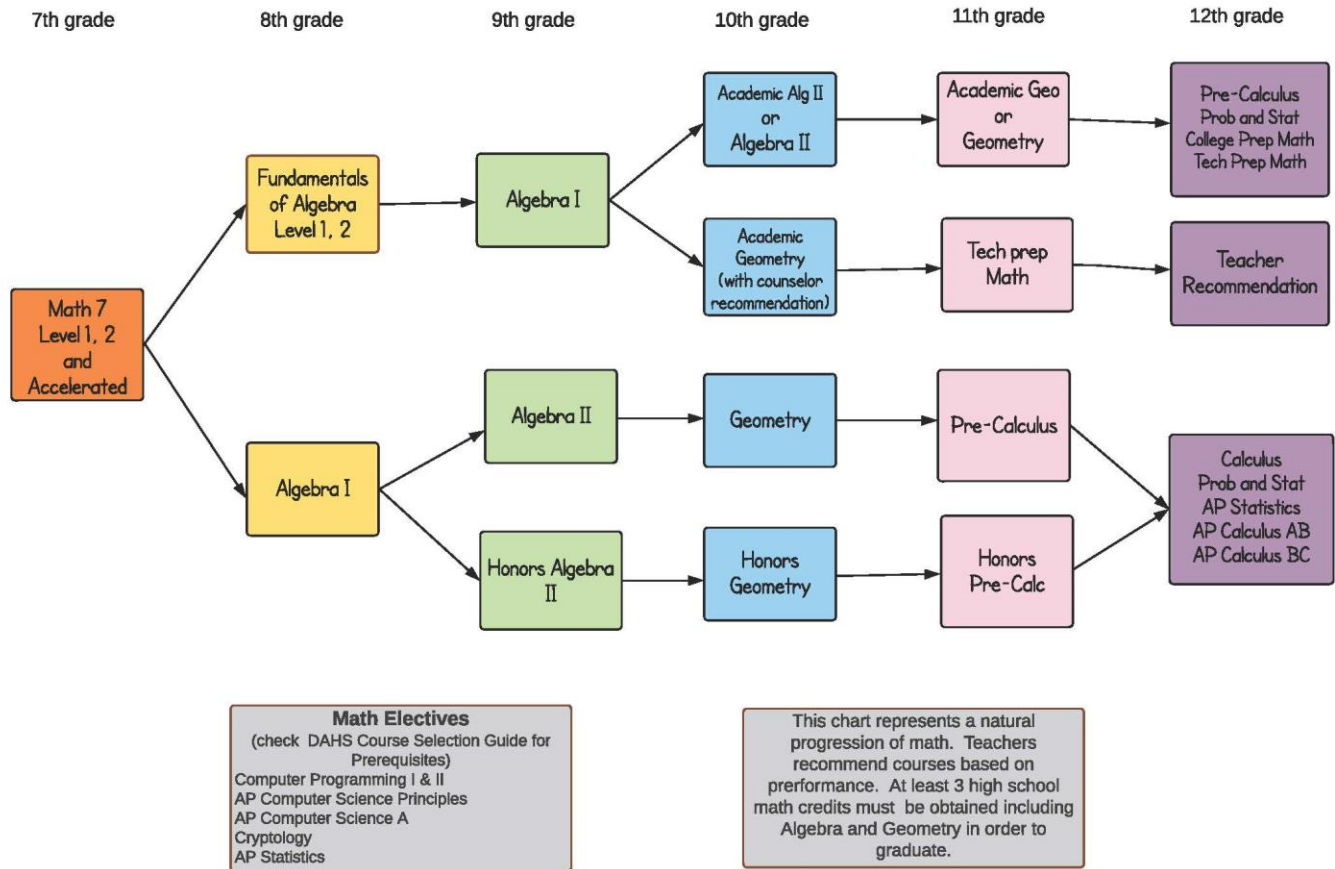
MATHEMATICS

COURSE TITLE

DESCRIPTION

Mathematics Progression Chart

Revised Jan 2023
KMC



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

COURSE TITLE

DESCRIPTION

ACADEMIC ALGEBRA II (NCAA approved)

(TO414A) ACADEMIC ALGEBRA II A
(TO414B) 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)

(TO424A) ACADEMIC GEOMETRY A
(TO424B) 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, parallel and perpendicular lines, congruent triangles, polygons, similarity, right triangles, trigonometry, circles, circumference, area, and volume.

ALGEBRA I (NCAA approved-1 credit max)

(TO410A) ALGEBRA I A
(TO410B) ALGEBRA I B
(TO410C) 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)

(TO415A) ALGEBRA II A
(TO415B) 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.

COURSE TITLE

DESCRIPTION

AP CALCULUS AB (NCAA approved)

(TO440A) AP CALCULUS AB A
(TO440B) AP CALCULUS AB B

DETAILS: 2 Trimesters (Trimester 1 & 2 only)

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: Honors Precalculus or Precalculus (suggested grade: A)

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.

AP CALCULUS BC (NCAA approved)

(TO441A) AP CALCULUS BC A
(TO441B) AP CALCULUS BC B

DETAILS: 2 Trimesters (Trimester 1 & 2 only)

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: Honors Precalculus (suggested grade: A or B).

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.

AP CALCULUS EXTENSIONS

(TO443) AP CALCULUS EXTENSIONS

DETAILS: 1 Trimester (Trimester 3 only)

CREDIT: 0.5

GRADE LEVEL: 12

PREREQUISITE: Students must be taking AP Calculus

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.

AP COMPUTER SCIENCE A (NCAA approved)

(TO452A) AP COMPUTER SCIENCE A
(TO452B) AP COMPUTER SCIENCE B

DETAILS: 2 Trimesters (Trimester 2 & 3 only)

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. 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.

***Students can only utilize 0.5 credit in computer sciences to satisfy the math graduation requirement.**

COURSE TITLE

DESCRIPTION

AP COMPUTER SCIENCE PRINCIPLES

(NCAA approved)

(TO453A) AP COMPUTER SCIENCE PRINCIPLES A
(TO453B) AP COMPUTER SCIENCE PRINCIPLES B

DETAILS: 2 Trimesters (Trimester 2 & 3 only)

CREDIT: 1.0

GRADE LEVEL: 10-12

PREREQUISITE: Algebra I with strong problem-solving skills

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. Cyber security, information technology, and computer programming will be explored. ***Students can only utilize 0.5 credit in computer sciences to satisfy the math graduation requirement.**

AP STATISTICS (NCAA approved)

(TO445A) AP STATISTICS A
(TO445B) AP STATISTICS B

DETAILS: 2 Trimesters (Trimester 1 & 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)

(TO437) 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)

(TO433) 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.

COURSE TITLE

DESCRIPTION

COMPUTER PROGRAMMING I

(TO450) 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.

***Students can only utilize 0.5 credit in computer sciences to satisfy the math graduation requirement.**

COMPUTER PROGRAMMING II

(TO451) 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. ***Students can only utilize 0.5 credit in computer sciences to satisfy the math graduation requirement.**

CRYPTOLOGY (NCAA approved)

(TO456) 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.

***This course does NOT satisfy a math graduation requirement.**

GEOMETRY (NCAA approved)

(TO425A) GEOMETRY A (TO425B) 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.

COURSE TITLE

DESCRIPTION

HONORS ALGEBRA II (NCAA approved)

(TO417A) HONORS ALGEBRA II A
(TO417B) HONORS ALGEBRA II B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-10

PREREQUISITE: 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)

(TO427A) HONORS GEOMETRY A
(TO427B) 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)

(TO436A) HONORS PRECALCULUS A
(TO436B) HONORS PRECALCULUS B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10-11

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)

(TO435A) PRECALCULUS A
(TO435B) 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.

COURSE TITLE

DESCRIPTION

PROBABILITY & STATISTICS (NCAA approved)

(TO460) 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

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 course are needed. College planning and scholarships will also be explored.

This course should be selected from the English Department.

TECH PREP MATH

(TO430) 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 (Tenor & Bass only)

Guitar

Keyboarding I

Music History

Musical Theater

Music Theory I

Orchestra

Symphonic Band

Treble Choir

Voice I

Grades 10-12

Audio Engineering

Concert Choir

Guitar

Keyboarding I

Keyboarding II

Music History

Musical Theater

Music Theory I

Music Theory II

Orchestra

Symphonic Band

Treble Choir

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
T1054B	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 LE IA	.5
T1309B	Teacher Assistant (Juniors and Seniors ONLY)	.5
T1270A	Gifted Seminar	.5
T0956N	Physical Education	.5
TCO0970A	Cyber Personal Health	.5
T1400D	Study Hall for Music Students	

PERFORMING ARTS

COURSE TITLE

DESCRIPTION

CONCERT CHOIR

CONCERT CHOIR GROUPS (see chart on page 55)

DETAILS: 3 Trimester grouping

CREDIT: 1.0-1.5 (for Performing Arts Group)

GRADE LEVEL: 9-12 tenor & bass singers 10-12 treble singers

PREREQUISITE: An audition and/or teacher recommendation is needed for this course.

ORCHESTRA

ORCHESTRA GROUPS (see chart on page 55)

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

SYMPHONIC BAND

SYMPHONIC BAND GROUPS (see chart on page 55)

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 treble singers in grades 10 through 12 and tenor & bass singers 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 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 20th 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 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 bands. Music of various periods and styles are introduced and performed by the band. 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.

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.

GUITAR

(T1064) GUITAR

DETAILS: 1 Trimester
CREDIT: 0.5
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.

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.

PERFORMING ARTS

COURSE TITLE

DESCRIPTION

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. A study of the major composers for each period in the evolution of music will be the focus of this class.

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 19th 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.

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.

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 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

TREBLE CHOIR

(T1052A) TREBLE CHOIR

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 Treble Choir is offered to treble singers 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. **Attendance at all performances is required.** Grading in Treble Choir is based on a combination of class participation, attendance, and individual singing grades.

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

(T1062) 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. This is a non-performing group.

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) **NOT OFFERED 2023-24**

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

Honors Chemistry

Grade 11 (continued)

Honors Forensics II

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 Forensics II

Honors Physics

Human Biology

Materials Science

Physics

Practical Physics

Six Kingdom Survey

COURSE TITLE

DESCRIPTION

AP BIOLOGY - lab science (NCAA approved)

(TO317A) AP BIOLOGY A
(TO317B) AP BIOLOGY B
(TO317C) 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)

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.

AP CHEMISTRY - lab science (NCAA approved)

(TO335A) AP CHEMISTRY A
(TO335B) AP CHEMISTRY B
(TO335C) 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).

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.**

AP ENVIRONMENTAL SCIENCE - lab science (NCAA approved)

(TO327A) AP ENVIRONMENTAL SCIENCE A
(TO327B) AP ENVIRONMENTAL SCIENCE B

DETAILS: 2 Trimesters (Trimester 1 & 2 only)

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: Students who take this course must have completed General Science, Biology, and Algebra I.

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 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.

COURSE TITLE

DESCRIPTION

AP PHYSICS 1 - lab science (NCAA approved)

(TO344A) AP PHYSICS 1 A
(TO344B) AP PHYSICS 1 B

DETAILS: 2 Trimesters (Trimester 1 & 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.

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

AP PHYSICS 2 - lab science (NCAA approved)

(TO345A) AP PHYSICS 2 A
(TO345B) AP PHYSICS 2 B
(TO345C) 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.

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.

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

(TO347) 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.

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.

COURSE TITLE

DESCRIPTION

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

(TO346) 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

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 (NCAA approved)

(TO320B) Astronomy, Climate, and Resources

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 10-12

PREREQUISITE: None

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.

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

(TO313A) BIOLOGY A

(TO313B) BIOLOGY B

(TO313C) 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.**

COURSE TITLE

DESCRIPTION

CHEMISTRY - lab science (NCAA approved)

(TO333A) CHEMISTRY A
(TO333B) 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) **NOT OFFERED 2023-2024**

(TO360) 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)

(TO371) 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.

FORENSICS (NCAA approved)

(TO373) 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.

COURSE TITLE

DESCRIPTION

GENERAL SCIENCE - lab science (NCAA approved)

(TO303A) GENERAL SCIENCE A
(TO303B) 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)

(TO320A) 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)

(TO314A) HONORS BIOLOGY A
(TO314B) HONORS BIOLOGY B

DETAILS: 2 Trimesters (Trimester 1 & 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:

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

COURSE TITLE

DESCRIPTION

HONORS CHALLENGES IN PHYSICS
(NCAA approved)**(TO348) 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), Honors Physics (term A), or AP Physics 1 and must have taken or be enrolled in Precalculus

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.

HONORS CHEMISTRY - lab science (NCAA approved)**(TO334A) HONORS CHEMISTRY A**
(TO334B) 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 in grade 8 (suggested grade of B or better) or completed Honors General Science A (suggested grade of B or better)

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.**

HONORS FORENSICS II (NCAA approved)**(TO374) HONORS FORENSICS II****DETAILS:** 1 Trimester**CREDIT:** 0.5**GRADE LEVEL:** 11-12**PREREQUISITE:** CCR Forensics, Chemistry, Physics (co-requisite)

Honors Forensics II is a course designed for college-bound students with a strong interest in science and forensics. This course will extend upon what is covered in the first Forensics course and provide more in-depth and detailed analysis of both known and unknown samples. Some topics covered will include bullet trajectory analysis, autopsy and determination of cause of death, forensic entomology, and advanced unknown chemical analysis. In addition, students will have the opportunity to meet experts within the field of forensics and learn about real-life investigation and testing of evidence. **If interested in taking this course, students will need to have taken the first Forensics course, Chemistry, and have taken OR be co-enrolled in Physics.**

COURSE TITLE

DESCRIPTION

HONORS GENERAL SCIENCE - lab science (NCAA approved)**(TO304A) HONORS GENERAL SCIENCE A**
(TO304B) HONORS GENERAL SCIENCE B**DETAILS:** 2 Trimesters**CREDIT:** 1.0**GRADE LEVEL:** 9**PREREQUISITE:** Algebra I is the suggested prerequisite for this course

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. **Satisfactory completion of an independent research experiment is required to complete this course at the Honors level. Failure to complete this project will result in a change in the course designation from Honors to CCR on the student's transcript.** 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.**

HONORS PHYSICS - lab science (NCAA approved)**(TO342A) HONORS PHYSICS A**
(TO342B) 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)

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.

HUMAN BIOLOGY (NCAA approved)**(TO325) HUMAN BIOLOGY****DETAILS:** 1 Trimester**CREDIT:** 0.5**GRADE LEVEL:** 10-12**PREREQUISITE:** None

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 - lab science (NCAA approved)**(TO340) MATERIALS SCIENCE****DETAILS:** 1 Trimester**CREDIT:** 0.5**GRADE LEVEL:** 11-12**PREREQUISITE:** Completion of General Science and Biology **NOTE:** If a student fails part A or part B of General Science, they may take this course as a substitute for the failed portion of General Science

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)

(TO343A) PHYSICS A
(TO343B) PHYSICS B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: Students must have completed Academic Algebra II, Algebra II or Honors Algebra II (suggested grade of C or better in both parts of the course)

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 approved)

(TO341) PRACTICAL PHYSICS

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: Completion of General Science

NOTE: If a student fails part A or part B of General Science, they may take this course as a substitute for the failed portion 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)

(TO318) SIX KINGDOM SURVEY

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 10-12

PREREQUISITE: Completion of Biology or Honors Biology

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

AP Human Geography

AP Macroeconomics (offered 2024-2025)

AP Microeconomics (offered 2023-2024)

AP U.S. History

Civil War

Holocaust Studies

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

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

Honors U.S. History

Local History

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

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

U.S. History

Grades 11 and 12

AP European History

AP Human Geography

AP Macroeconomics (offered 2024-2025)

AP Microeconomics (offered 2023-2024)

AP Psychology

AP U.S. Government/Politics

Civil War

Financial Literacy and Economics

Geography

Government and Politics

History of Agriculture and Food

Holocaust Studies

Honors Financial Literacy and Economics

Honors Government and Politics

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

AP EUROPEAN HISTORY (NCAA approved)

(TO237A) AP EUROPEAN HISTORY A
(TO237B) AP EUROPEAN HISTORY B

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

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.**

AP HUMAN GEOGRAPHY (NCAA approved)

(TO235A) AP HUMAN GEOGRAPHY A
(TO235B) AP HUMAN GEOGRAPHY B

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

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 are required summer assignments.

AP MACROECONOMICS (NCAA approved)

(OFFERED 2024-2025)

(TO221) AP MACROECONOMICS

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

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.

AP MICROECONOMICS (NCAA approved)

(OFFERED 2023-2024)

(TO220) AP MICROECONOMICS

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

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.

COURSE TITLE

DESCRIPTION

AP PSYCHOLOGY (NCAA approved)

(TO223A) AP PSYCHOLOGY A
(TO223B) AP PSYCHOLOGY B

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

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 US GOVERNMENT/POLITICS (NCAA approved)

(TO236A) AP US GOVERNMENT/POLITICS A
(TO236B) AP US GOVERNMENT/POLITICS B

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

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.

AP US HISTORY (NCAA approved)

(TO216A) AP US HISTORY A
(TO216B) AP US HISTORY B

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

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 are required summer assignments.**

CIVIL WAR (NCAA approved)

(TO250) 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.

COURSE TITLE

DESCRIPTION

FINANCIAL LITERACY AND ECONOMICS

(TO225) 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)

(TO230) 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)

(TO229) GOVERNMENT AND POLITICS

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

Government and Politics is a **required** course for graduation 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.

HISTORY OF AGRICULTURE AND FOOD (NCAA approved)

(TO251) 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.

COURSE TITLE

DESCRIPTION

HOLOCAUST STUDIES (NCAA approved)

(TO253) 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 FINANCIAL LITERACY AND ECONOMICS

(TO224) 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.

HONORS GOVERNMENT AND POLITICS (NCAA approved)

(TO228) 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 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 US HISTORY (NCAA approved)

(TO209A) HONORS US HISTORY A **(TO209B) HONORS US HISTORY 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 1900's to the present day. It will thematically analyze the essential components of American history and life.

COURSE TITLE

DESCRIPTION

HONORS WOMEN’S STUDIES (NCAA approved)

(TO249) 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)

(TO233) 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)

(TO260) 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.

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

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.**

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

SOCIAL STUDIES

COURSE TITLE

DESCRIPTION

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.**

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.**

PSYCHOLOGY (NCAA approved)

(TO240) PSYCHOLOGY

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: None

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 (NCAA approved)

(TO245) SOCIOLOGY

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 11-12

PREREQUISITE: None

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.

US HISTORY (NCAA approved)

(TO208A) US HISTORY A

(TO208B) US HISTORY B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10

PREREQUISITE: None

The US History course explores the social, economic and political issues of US History from the 1900's to the present day. It will thematically analyze the essential components of American history and life.

SOCIAL STUDIES

COURSE TITLE

DESCRIPTION

WESTERN CIVILIZATION (NCAA approved)

(TO248) WESTERN CIVILIZATION

DETAILS: 1 Trimester
CREDIT: 0.5
GRADE LEVEL: 11-12
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 (NCAA approved)

(TO203A) WORLD CULTURES A **(TO203B) WORLD CULTURES B**

OR

(TO204A) HONORS WORLD CULTURES A **(TO204B) HONORS WORLD CULTURES B**

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

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

Digital Animation

Fundamentals of Engineering Design and Drafting

Graphic Productions

Metals I: Metal Materials and Processes

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 Animation

Digital Photography

Fundamentals of Engineering Design and Drafting

Graphic Productions

Honors Electronics

Honors Robotics I

Honors Robotics II

Metals I: Metal Materials and Processes

Metals II: Metal Materials and Processes

Robotics I

Video I – Digital Video Production

Video II – Television Production and Broad. Journalism

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

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 Animation

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

Robotics I

Video I – Digital Video Production

Video II – Television Production and Broad Journalism

Video III – Adv Television Prod and Broad Journalism

Wood I: Wood Materials and Processes

Wood II: Wood Materials and Processes

Wood III: Wood Production and Design

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 12

Architectural Drafting and Design I

Architectural Drafting and Design II

Computer Aided Drafting I

Digital Animation

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

Robotics I

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 ANIMATION

(T1167) DIGITAL ANIMATION

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

This course will provide students a hands-on experience creating and modifying their own 2D and 3D animations using the latest Adobe Creative Cloud software. Students will study the principles of animation, character and story development, control and movement management through frame-by-frame animation and sound creation and editing techniques.

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 Computer Graphic Design.

VIDEO I - DIGITAL VIDEO PRODUCTION

(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

(T1111B) VIDEO II - TELEVISION PRODUCTION AND BROADCAST JOURNALISM

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: Video I - Digital Video Production

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.

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

This course builds upon the skills and concepts achieved in TV Production and Broadcast Journalism. 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.

Ability to earn college credits in Video III is available.

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

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.

Ability to earn college credits in Honors Digital Filmmaking is available.

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 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

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**

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

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**

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 higher in Metals II and instructor approval

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.**

METALS IV: ADVANCED METAL MANUFACTURING

(T1180) METALS IV: ADVANCED METAL MANUFACTURING

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

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 higher 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: Students must achieve 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.

Ability to earn college credits in Honors CAD II is available.

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 11th and 12th 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 21st century competencies in collaboration, problem solving, and critical thinking. **This course utilizes the VEX® Robotics Kits and RobotC programming language.**

ROBOTICS I

(T1161) 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 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

Spanish I, II

The Dark Ages

Word Origins

Grade 10

French I, II, III

German I, II, III

Latin II

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 Spanish IV

Latin II

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 Spanish IV

Latin II

Spanish I, II, III

The Dark Ages

Word Origins

WORLD LANGUAGE

COURSE TITLE

DESCRIPTION

AP SPANISH LANGUAGE AND CULTURE (NCAA approved)

(TO545A) AP SPANISH LANGUAGE AND CULTURE A

(TO545B) AP SPANISH LANGUAGE AND CULTURE B

DETAILS: 2 Trimesters (Trimester 1 & 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)

(TO511A) FRENCH I A

(TO511B) FRENCH I B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: 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

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)

(TO512A) FRENCH II A

(TO512B) 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)

(TO513A) FRENCH III A
(TO513B) 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 of 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 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. Students will explore technology, transportation, city planning, and advanced shopping vocabulary. Students will also master the conditional and future tenses.

GERMAN I (NCAA approved)

(TO521A) GERMAN I A
(TO521B) GERMAN I B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: 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

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)

(TO522A) GERMAN II A
(TO522B) 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.

COURSE TITLE

DESCRIPTION

GERMAN III (NCAA approved)

(TO523A) GERMAN III A
(TO523B) 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)

(TO514A) HONORS FRENCH IV A
(TO514B) HONORS FRENCH IV B

DETAILS: 2 Trimesters

CREDIT: 1.0 each

GRADE LEVEL: 11-12

PREREQUISITE: French III

The 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. Students explore environmental, job, and advanced art vocabulary. Students will continue to explore advanced grammar topics in order to increase fluency.

The French IV 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.

HONORS FRENCH V (NCAA approved)

(TO515A) HONORS FRENCH V A
(TO515B) HONORS FRENCH V B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 12

PREREQUISITE: French IV

The 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. This course enables students to comprehend, speak, read and write in French with a high degree of proficiency. Students will explore the first of three of the six themes of an AP French course. These themes include family and community, science and technology, and beauty and aesthetics.

The 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. This course enables students to comprehend, speak, read and write in French with a high degree of proficiency. Students will explore the last three of the six themes of an AP French course. These themes include global challenges, contemporary life, and personal and public identities.

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.

COURSE TITLE

DESCRIPTION

HONORS SPANISH IV (NCAA approved)

(TO544A) HONORS SPANISH IV A
(TO544B) HONORS SPANISH IV B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 11-12

PREREQUISITE: Spanish I, II, and III

Spanish IV A students will acquire greater speaking and writing proficiency, cultural awareness and improved reading and listening skills. All of the instruction will be in Spanish, and students will be expected to only use the target language in class. The topics of study will be teenage life, social networking and a healthy life, and the focus will be on talking about the past and the future.

Spanish IV B students will continue their exploration of the Spanish language and will learn more about Colombia, the Dominican Republic, and Central America. The topics of study will be living a balanced and healthy life, creating a sustainable community and preparing for a future profession. The focus will be on giving advice, expressing emotion and persuading, and saying what they would do in different situations. Also, they will express hopes, emotions, and give advice and discuss what they will/would do in various situations.

LATIN II (NCAA approved)

(TO532A) LATIN II A
(TO532B) LATIN II B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 10-12

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.

SPANISH I (NCAA approved)

(TO541A) SPANISH I A
(TO541B) SPANISH I B

DETAILS: 2 Trimesters

CREDIT: 1.0

GRADE LEVEL: 9-12

PREREQUISITE: 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

The Spanish I A student will acquire basic vocabulary and grammar skills in order to communicate orally and in writing. These skills include describing identity and people and expressing interests and opinions about school and 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 the home and family as well as talking about food and shopping. 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.

WORLD LANGUAGE

COURSE TITLE

DESCRIPTION

SPANISH II (NCAA approved)

(TO542A) SPANISH II A
(TO542B) 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 and vocabulary. The course will end with students transitioning to the past tense. The preterit and imperfect tense will be the focus. Students will be expected to express themselves and discuss what they did in the past. In addition, a cultural focus of holidays, celebrations, and cultural traditions 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 and past tense, the Spanish II B student will be able to effectively communicate when traveling. The present progressive will be taught during the travel unit, along with new cultural learnings about countries in South America. An area of focus in this course will be discussing school and family. Conjugation of reflexive verbs and discussing daily routine will be expected in writing, speaking, listening, and reading activities. The Spanish II B students will acquire the ability to describe childhood and fully understand when to appropriately use the imperfect tense. 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.

SPANISH III (NCAA approved)

(TO543A) SPANISH III A
(TO543B) 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. All the instruction will be in Spanish, and students will be expected to predominantly use the target language in class. Students will learn about the geography and the culture of South America and the Caribbean. Also, they will communicate about their daily life, travel, shopping, health, and home remedies. The focus will be on talking about the present and past and giving instructions using commands.

Spanish III B students will continue their exploration of the Spanish language and will learn more about the geography and culture of Peru and Argentina. Students will talk about pastimes, outdoor activities, lodging, and food. The focus will be on narrating a story, planning a trip, and invitations.

WORLD LANGUAGE

COURSE TITLE

DESCRIPTION

THE DARK AGES (NCAA approval pending)

(T0555) THE DARK AGES

DETAILS: 1 Trimester

CREDIT: 0.5

GRADE LEVEL: 9-12

PREREQUISITE: None

WORD ORIGINS

(T0550) WORD ORIGINS

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.

***Students do not need to have any previous or current experience with any world language to take this course.**

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.**