

**Solanco High School**  
**585 Solanco Road**  
**Quarryville, PA 17566**  
**717-786-2151**

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Dr. Robert J. Dangler, Assistant Superintendent  
Mr. Chris Keeler, Supervisor of Special Education

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Dr. W. Scott Long, Principal  
Mr. Brent Buckwalter, Assistant Principal  
Ms. Amanda Summers, Assistant Principal  
Mrs. Stephanie Milazzo, Assistant Principal  
Mr. Anthony S. Hall, Director of Athletics

**High School Counselors**

Mrs. Grace Callirgos  
Mrs. Patti McTaggart  
Mrs. Kelly Shumaker

**Lead Teachers**

Agriculture	Mrs. Stephanie Balmer
Art	Mrs. Candace Rakers
Business	Mr. Josh Fleming
English	Mr. John Biles
Family & Consumer Science	Mrs. Erin Byrnes
Guidance	Mrs. Kelly Shumaker
Health Services	Mrs. Nicole Bender
Mathematics	Mr. Jake Bongiovanni
Media Center	Mrs. Emily Dawley
Music	Mr. Scott Weyman
Science	Mrs. Stephanie Jones
Social Studies	Ms. Cindy Sangrey
Special Education	Mrs. Danielle Booth

Technology Education  
Wellness & Fitness  
World Language

Mr. Luis Mendez  
Mrs. Morgan Miller  
Dr. Jennifer Eisenberger

## **SECTION I – ACADEMIC PLANNING INFORMATION**

The Educational Planning Guide has been designed to assist students in developing four-year educational plans. Students can select courses comparable to individual abilities, talents, and career goals. The guidance department and the administration reserve the right to change a student's schedule based on past academic performance and standardized testing results and to accommodate the needs of the student body. Situations may occur when a student cannot schedule a particular course. This may be due to prerequisites for specific courses, courses scheduled during the same period, staff and space limitations, class size, or teacher recommendation. Scheduling required core courses takes precedence over scheduling an elective.

### **ACADEMIC PLANNING PROCEDURE**

School counselors will meet with students in class to explain the educational planning process. Teachers will recommend appropriate selections to the students. Students will use an online course registration to input their academic requests into the system. Parents are encouraged to review student course requests in PowerSchool.

### **ADVANCED COURSES**

Advanced classes are assigned by recommendation of a team of administrators, counselors, Lead Teachers, and teachers. The intent of advanced-level classes is to challenge students through the coursework. Consideration is given to performance in previous courses plus standardized test scores. Courses are designated as "Advanced" on the school transcript.

### **ADVANCED PLACEMENT (AP) COURSES**

Advanced Placement courses are offered through The College Board. Solanco High School offers courses in English Language and Composition, English Literature and Composition, Calculus AB, Calculus BC, Statistics, AP Computer Science A, AP Computer Science Principles, Biology, Chemistry, Physics C, United States History, European History, Music Theory, and Spanish Literature and Culture. Students must have a 3.25 cumulative GPA in the subject area and teacher approval to take an Advanced Placement course. Advanced Placement courses are assigned a weighted grade for class rank purposes. Weighted courses use the following grade point values:

A = 5.0 B = 4.0 C = 3.0 D = 1.0 F = 0.0

All AP courses are divided into two parts. A grade is earned at the end of the first semester for GPA and rank purposes. To earn the distinction of "AP," a student must complete both semesters of the course. If a student does not complete either semester, no "AP" distinction or weight will be received.

## AP CAPSTONE

AP Capstone is an innovative diploma program from the College Board that equips students with the independent research, collaborative teamwork, and communication skills colleges increasingly value. AP Capstone is built on the foundation of two AP courses – AP Seminar and AP Research – and is designed to complement and enhance the in-depth, discipline-specific study experienced in other AP courses. The two classes are taken separately, with Seminar being a prerequisite for Research. Students who earn scores of 3 or higher in AP Seminar and AP Research and four additional AP Exams of their choosing receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificates.

## GIFTED PROGRAM

Gifted programming at Solanco High School has been built around the Autonomous Learner Model (Betts and Kercher) and is designed to give gifted students the skills to take charge of their learning. Below is how each aspect of the Autonomous Learner Model has been implemented at Solanco High School:

Orientation: Each gifted student at Solanco is placed within a gifted advisory, ensuring opportunities to interact with their intellectual peers. Team building and socialization activities occur during specialized *Solanco Seminars*, weekly advisory lessons, and lunch groups.

Individual Development: Gifted students can enroll in a *Gifted Independent Study*, attend *Secondary Enrichment Experiences (SEE)* at IU13, and develop specialized skills in conjunction with individual teachers and the guidance office.

Enrichment: Through *Solanco Seminars*, advisory lessons, and collaboration with individual teachers and departments, gifted students are provided various forms of enrichment focused on strength areas and career interests.

Seminars: Focused and topical learning occurs through *Solanco Seminars*, *SEE Seminars*, and specialized gifted courses.

In-depth Study: Specially designed instruction, including gifted courses and academic competitions, provide opportunities for thorough study and application of skills. Academic competitions include Odyssey of the Mind, Model UN, Mock Trial, PA Governor's STEM competition, and various quiz bowl-style events.

\*These are graded courses offered exclusively to gifted students at Solanco High School:

- *Gifted Applications A & B:* Gifted Applications is an elective class centered around high-level competitions at local, regional, and national levels. Preparation, practice, and, ultimately, competitions serve as units of study. The purpose of this class is to intellectually challenge gifted students while enhancing fundamental world skills through project- and inquiry-based learning. Secondary skills such as teamwork, time management, and risk-taking are also developed. Competitions include Odyssey of the Mind, the Stock Market Game, Model UN, and Mock Trial. Course # 60999 & 60277 – Full Year – 1.0 credits

- *Gifted Explorations A & B*: The Gifted Explorations course is an elective enrichment course designed to allow gifted students to explore fields of study not offered elsewhere during their high school career. Units have included the study and creation of film, sports, 20<sup>th</sup> century music, and animation. Assessment is often done through writing, although every unit contains a large creative project. Course # 90740 – Semester 1 (Fall) / 90741 – Semester 2 (Spring) – each is 0.50 credits.
- *Gifted Independent Study (GIS)*: A student enrolling in a GIS is expected to generate a project idea that they will implement with the help of a faculty mentor. Upon completing the project, students will present their results formally to a grading committee, who will assess and assign a letter grade. Since there are few deadlines, time management is an essential skill that will be developed/improved through the *GIS* process. Past projects have included creating and performing original music, architectural design, a political internship, and research papers, among others. Course # 90712 – Full Year – 1.00 credits
- Grading for Gifted Independent Study is the same as any general education independent study. (See page 8 for description.)

## GRADING

Grades are based upon assessments, in-class participation, and out-of-class work, as determined by the individual classroom teacher. The primary guideline for grades is as follows:

A:	Outstanding	4.0
B:	Above expectations	3.0
C:	Meets expectations	2.0
D:	Below expectations	1.0
F:	Failure to achieve minimal course requirements. No credit earned 0.0.	
I:	Incomplete. An “I” is never assigned as a final grade. Incomplete work due to an excused absence must be made up within ten (10) school days after the conclusion of each quarterly marking period. The student will receive an “F” grade if the work is not made up.	

## HIGH SCHOOL GRADUATION

To graduate from Solanco High School, a student must complete the graduation requirements approved by the Solanco Board of School Directors.

A student must earn a minimum of 26.0 credits, which includes the following:

<u>Units of Credit</u>	<u>Course Title</u>
4.0	English
3.0	Mathematics
3.0	Science
3.0	Social Studies
2.0	Arts and Humanities

	1.5	Fitness
	.5	Wellness
	8.0	Electives
	<u>1.0</u>	an additional credit in English, math, science,
or		
	26.0	social studies at the student's choice

Courses that may be selected to meet the Arts and Humanities (2.0 credits) requirement may be chosen from the electives in these departments:

Agriculture	World Language
Art	Music
Business	Social Studies
English	Technology Education
Family and Consumer Science	

### **Credit Requirement**

- 5.00 credits to advance to 10<sup>th</sup> grade
- 12.00 credits to advance to 11<sup>th</sup> grade
- 19.00 credits to advance to 12<sup>th</sup> grade

### **HONOR ROLL**

The high school program of reporting pupil progress recognizes high academic achievement through an honor roll system.

Distinguished Honors: Students who receive a 3.5 quarterly grade point average. No grades below a "B".

Honors: Students who receive a 3.0 quarterly grade point average. No grades below a "C".

### **MAKE-UP COURSES**

Students who fail a course may earn credits by completing an approved Credit Recovery and summer school program. The building principal and counselor must approve taking the remedial course. Students are urged to make up credits using Solanco summer school or Credit Recovery, but they may enroll in any certified summer school program.

The subject of the Make-up Course will be recorded on the transcript as a pass/fail course, and the earned credit will appear on the transcript.

Students may not use summer school, tutorial programs, or other credit recovery to advance their credits toward graduation.

### **RETAKEING ACADEMIC COURSES**

Students may repeat a previously passed course in cases where they feel they have not adequately mastered the subject material. When a subject is repeated, the grades from both courses will appear on the transcript. No additional credit will be awarded the second time a subject is taken. The grade will not be calculated as part of the GPA and rank. The course will be repeated only with the approval of the Lead Teacher, school counselor, and the principal.

The World Language Department recommends that students who have earned a “D” in their world language course should repeat it the following year for a stronger foundation before advancing to the next level.

### **SCHEDULE CHANGES**

**The deadline for making schedule changes will be August 23, 2024.** Changes deemed necessary by the faculty/administration, and those required due to summer credit recovery completion, will be made after that date. Any courses dropped after the August deadline will result in the student being assigned an “F” unless otherwise approved by the administration.

**NOTE:** Changes to Semester 2 courses must be made before the first day of the second semester.

### **DUAL ENROLLMENT PROGRAM**

Dual Enrollment is an opportunity for high school students to earn college credit while still in high school. To be eligible for dual enrollment, a student must be enrolled at Solanco High School and meet the specific criteria set forth by the college or university of enrollment. Dual enrollment is available through the fall, spring & summer semesters. Solanco partners with Cecil College, HACC, Lancaster Bible College, Millersville University, Thaddeus Stevens Technical College, PA College of Health Sciences, Mansfield, and West Virginia University.

**Student Eligibility:** The student will demonstrate readiness for college-level work in the interested area of study as determined by the college. The college will assess readiness based on the school counselor and principal recommendation, available standardized test scores (PSSA, PSAT, SAT), and general academic performance. The college may require placement tests to be completed.

All dual enrollment courses will appear on the student’s high school transcript. Students will earn high school credit for college courses they pass. The course will be included in GPA and class rank calculations. Core area courses will be weighted and carry the same weight as an AP course. Elective area courses are not weighted. Earned college credit through this program is accepted at the discretion of the receiving college. A 3-credit college course is equal to 1 Solanco High School credit. Solanco Credit will only be awarded for courses that are 100-level or higher. Solanco High School does not limit the number of dual enrollment courses students can take each school year.

## SECTION II – SENIOR OPTIONS

### EARLY COMPLETION PROGRAM

This option is offered to senior class members who complete all graduation requirements by the end of the first semester of their senior year. The following procedures will be followed:

- During course selection, the student must apply for this option in their junior year.
- A written action plan must be submitted to the school counselor and the principal.
- By the end of the junior year, a meeting will be held to discuss the options and the plan. The meeting will be with the student, parents, school counselor, and the principal.
- By November of the senior year, the school counselor and the principal must submit and approve proof of the strategy.
- The student must demonstrate proficiency as documented by scores on Keystone Exams in Algebra, Literature, and Biology or satisfactorily complete the required remediation.
- The student must receive a passing grade in each subject for the first semester of senior year.
- The administration will review the discipline and attendance record of the student. If it is determined that the student has not demonstrated good attendance and discipline, the request for this option will be denied.

A student who earns the right to exercise this option will be considered a senior class member for the second semester but will not attend classes. The student retains the right to participate in senior events like the prom, Baccalaureate, and graduation. The student relinquishes their opportunity to be the Salutatorian or Valedictorian of the graduating class.

### INDEPENDENT STUDY

Listed below are the criteria for independent study:

- Seniors only.
- Must have advanced through the courses in that subject area.
- **Must submit the request, in writing**, to the counselor with the written approval of the teacher.
- A written **Project Design** must be submitted to the principal. Approval of the design must be received from the teacher and counselor before being submitted to the principal.
- All requests and Project Designs must be submitted and approved by the principal.
- All grades for independent study are pass/fail. Those grades will not be used to calculate class rank, GPA, or honor roll.

## **INTERNSHIPS**

The Career Internship Program is intended to provide Solanco High School juniors and seniors with opportunities to participate in on-site observations of business and professional organizations. This program will provide students with the opportunity to interact with, observe, and assist individuals who are employed in a profession. The internship intends to offer activities to enable the student to make informed career decisions based on significant knowledge and insights developed during participation.

### **Criteria:**

- Internships are open only to seniors and second-semester juniors.
- The student is responsible for initiating and securing a career internship experience.
- Seniors applying for an internship must demonstrate the following:
  - a 90% attendance record over three years
  - Minimum G.P.A. of 2.00 over three years
  - Good disciplinary record
- Students may not be paid for their internship experience.
- Students will spend at least five hours each week participating in the internship experience.
- Students will schedule the career internship option during the course selection process. Specific details will be arranged with the counselor and principal.
- A pass/fail grade for the Career Internship Experience will be awarded, and one (1) credit will be noted on the transcript. Class rank and G.P.A. will not be affected by the internship.
- Internship will be for one (1) semester.
- Agriculture internships will be approved through the agriculture department. Students must be enrolled in the high school agriculture curriculum.
- Students who fail to maintain an acceptable level of performance on the internship based upon attendance, grades, and the appraisal by the internship supervisor will receive an “F” grade and will immediately be returned to a full-time class schedule. The student must pass all courses to graduate.
- Students may not have an immediate family member as a direct supervisor.

## **SENIOR WORK PROGRAM**

Seniors are offered the opportunity for a partial day in the Work Study Program. The requirements for this program are:

- The senior must be on track to graduate with all credit requirements being satisfied at the end of the second semester.
- Achieved a 90% attendance rate for the previous three years and maintained this attendance rate while in the program.
- Has documented that they have employment.



- Any action resulting in out-of-school suspension may be the reason for removal from the program.
- Will satisfy requirements in reading and math as required by the Pennsylvania Department of Education.

Schedule of the program:

- The participants will attend the high school for a partial day and then be dismissed to go to their place of employment.
- In some cases, a student could attend classes in the afternoon and work in the morning.

Responsibility for the program:

- Students are responsible for acquiring employment.
- Students must complete the necessary forms, including the signatures of parents and employers.
- If the student loses employment due to his/her fault, then the student will return immediately to a full schedule at the high school. The student must successfully pass all subjects to graduate.
- The student is responsible for maintaining passing grades in all classes. Students with any failing grades may be pulled from the program in order to remain in school to focus on the work needed to achieve and maintain passing grades.

### **PIAA ELIGIBILITY**

According to PIAA regulations, student-athletes must pass a minimum of 4 credits to be eligible for competition. This regulation could affect seniors who are scheduling internships and work-study experiences. The Solanco High School procedure requiring students to have passing grades in all but one class to be eligible are still in effect. The PIAA regulation simply sets a minimum number of classes for a student to take. A student taking four credits must pass all classes. A student taking 5+ credits must be passing all but one class.

**SECTION III – NCAA ELIGIBILITY CENTER  
FOR ACADEMIC ELIGIBILITY  
NCAA.org**

**Division I Academic Eligibility Requirements**

If you enroll in a Division I college and want to participate in athletics or receive an athletic scholarship, you must meet the following academic standards:

- Graduate from high school.
- Complete the 16 core courses listed below.
- Present a minimum required grade-point average in your core courses.
- Achieve a combined SAT or ACT sum score that matches your core-course grade-point average in the grade point average and test score index.

**16 Required Core Courses:**

- Four years of English.
- Three years of mathematics (algebra I or higher level).
- Two years of natural or physical science (including one year of lab science if offered by your high school).
- One extra year of English, mathematics, or natural/physical science.
- Two years of social science.
- Four years of extra courses (from any category above, or foreign language, non-doctrinal religion, or philosophy).

-A “partial qualifier” is eligible to practice with a team at its home facility and receive an athletic scholarship during his or her first year at a Division I school and then has three seasons of competition remaining.

-A partial qualifier may earn a fourth year of competition, provided that at the beginning of the fifth academic year following the student-athlete’s initial, full-time collegiate enrollment, the student-athlete has received a baccalaureate degree.

-In order to be considered a “partial qualifier,” you have not met the requirements for a qualifier, but you are required to:

- Graduate from high school.
- Present a grade-point average (based on a maximum of 4.00) and a combined score on the SAT verbal and math sections or a sum score on the ACT.

**Division II**

If you enroll in a Division II college and want to participate in athletics or receive an athletics scholarship, you must meet the following academic standards:

- Graduate from high school.
- Complete the 14 core courses listed below.
- Present a 2.000 grade-point average in your core courses.
- Achieve a combined SAT score of 820 or a sum score of 68 on the ACT.

## **16 Required Core Courses:**

- Three years of English.
- Two years of mathematics (algebra I or higher level).
- Two years of natural or physical science (including one year of lab science if offered by your high school).
- Three years of English, mathematics, or natural/physical science.
- Two years of social science.
- Four years of extra courses (from any category above, or foreign language, non-doctrinal religion, or philosophy)

-A “partial qualifier” is eligible to practice with a team at its home facility and receive an athletic scholarship during his or her first year at a Division II school.

-In order to be considered a “partial qualifier,” you have not met the requirements for a qualifier, but you are required to graduate from high school and meet one of the following requirements:

- Specified minimum SAT or ACT score
- Successful completion of a required core curriculum consisting of a minimum number of courses and a specified minimum grade-point average in the core curriculum.

-Details of these general requirements are contained in the following sections.

## **Definition of a Core Course**

To meet the core course requirement, a “core course” is defined as a recognized academic course (as opposed to a vocational or personal service course) that offers fundamental instruction in a specific area of study. Courses taught below your high school’s regular academic instructional level (e.g., remedial, special education, or compensatory) can’t be considered core courses, regardless of the content of the courses.

## **Additional information**

Several additional points about the NCAA’s initial eligibility requirements should be emphasized:

- These requirements currently do not apply to Division III colleges, where eligibility for financial aid, practice, and competition is governed by institutional conferences and other NCAA regulations.
- This rule sets a minimum standard for athletic eligibility. It’s not a guide to your qualifications for admission to college. Under NCAA rules, your admission is governed by the entrance requirements of each member school.

For registration information, visit the NCAA Eligibility Center website at <https://web1.ncaa.org/eligibilitycenter/common/> or contact the NCAA Eligibility Center at the address and phone listed below:

NCAA Eligibility Center  
P.O. Box 7136  
Indianapolis, IN 46207-7136

(877) 262-1492

Call Center Hours: 8 a.m. - 6 p.m. EST Monday-Friday.

## SECTION IV – COURSE DESCRIPTIONS

### Agricultural Sciences & Technology Career Pathways: Engineering, Science and Technology

<b>Traditional Progression of Classes</b>				
Students do not have to start in 9 <sup>th</sup> grade, but ag classes are designed to build on previous material. Students should try to follow the order as best as possible.				
	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Animal Related Careers	Elements of Ag	Animal Science	Wildlife & Forestry Small Animal Care Equine Science	Natural Resources Advance Animal (part1&2)
Plant Related Careers	Elements of Ag	Wildlife & Forestry	Horticulture Landscape Design	Crop Science Land Use Advanced Plant (part1&2)
Mechanical Careers	Hand and Power Tool	Power Machine Tech	Wiring Welding	Building Construction
General Ag Classes			Leadership Lab Ag Business <small>(can be taken in 11<sup>th</sup> or 12<sup>th</sup>)</small>	

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0001	Hand/Power Tool Technology	1.00	9-10

Students will experience the proper use and maintenance of hand and power wood and metal working tools. Hands-on instruction includes the construction of various useful projects. Students will complete a bootjack, toolboxes, footstool, feed scoop, and other additional projects. This course will include technical as well as practical instruction. Students are required to participate in an online OSHA Safety Certification as the major grade for the 3<sup>rd</sup> marking period of the year. This course is a prerequisite to take Building Construction Technology in the student’s junior or senior year.

0002	Elements of Agri-Science	1.00	9-10
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This course is designed to give students a basic overview of agri-science. Some areas covered include introductions to plant and animal science, soil science, wildlife, forestry, horticulture, food science, international agriculture, and technology. Hands-on activities and FFA contests will accompany most units. Career planning and SAE project development will be integrated into the course. It is **strongly recommended** that all first-year FFA members take this course in order to be successful in their SAE.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0003	Power/Machine Technology	1.00	10

Students will be trained in the service and repair of 4-cycle engines, which will include disassembly, inspection, overhaul, and reassembly. Additionally, tune-ups and minor adjustments of multi-cylinder engines and systems will be covered. This course will balance classroom instruction with practical application of theories and concepts in the laboratory. Students will be expected to provide their own used engine (preferably Briggs and Stratton) for this course. Engine criteria can be obtained in advance by contacting Mr. Kerstetter ([luke\\_kerstetter@solancosd.org](mailto:luke_kerstetter@solancosd.org)) at any time after the course selection process or over the summer. Students are financially responsible for the purchase of any replacement parts required to return their engine to service.

0004	Animal Science	1.00	10
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This course includes the selection, nutrition, reproduction, management practices, housing, marketing, and environmental concerns of dairy, beef, swine, sheep, poultry, and horses. Project development will be integrated into the course. Some of the hands-on activities will include handling animals and food labs. Also, meat judging and dairy food judging will be included.

0005	Small Animal Care and Management	0.50	10-12
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This course will include the care and management of small animals. The study of pets, laboratory animals, and aquatic animals will be included. Areas of study will include feeding and nutrition, reproduction, selection, and animal health. Labs will complement the course. The handling of live animals is a graded requirement for this class.

0008	Equine Science (Horsemanship)	0.50	10-12
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This course will include breeds, management, and care of pleasure horses. Additional areas will include functional anatomy, digestion and nutrition, tack use and identification, techniques of horsemanship, and methods used in selection and evaluation.

0019	Horticulture	0.50	10-12
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This course will include the study of ornamentals, small fruit and vegetable production, greenhouse crops, and basic floral design. Some activities will include taking care of the rose garden, developing additional outdoor demonstration areas, and live and dried floral arrangements.

0020	Wildlife and Forestry Management	0.50	10-12
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This course will include the study of our renewable wildlife and forestry resources. Instruction will include forestry and woodlot management, fish and wildlife management, and recreational parks

management. Some hands-on activities will include wildlife habitat improvement, construction of wildlife structures, wildlife population studies, timber stand improvement, and recreational park management.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0027	Land Use & Management	0.50	10-12

Students will learn about the importance, development, and properties of soils. Additional topics will include land use and management, soil fertility, fertilizers, and soil conservation. Labs and hands-on instruction will be incorporated into the course. (Formerly “Soil Science”).

0006	Basic Arc & Gas Welding	0.50	11-12
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Students will learn basic skills in electric arc, oxyacetylene, and MIG methods of welding and cutting. Students will construct a useful project using the skills taught as their final exam grade. The district will provide all other safety attire and equipment. There is no final exam exemption process available for this course. This course will include technical as well as practical instruction.

0007	Building Construction	0.50	11-12
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Students will be taught principles of design, layout, and construction of various types of buildings. Hands-on instruction will cover all aspects of construction from foundation to roof, including building layout, concrete and masonry foundations, framing techniques, and roofing methods and materials. This course will include technical as well as practical instruction. The first marking period of the semester involves a construction math unit that requires a basic 4-function calculator. The second marking period will be devoted to the construction of small-scale required projects or perhaps a backyard shed for a student’s family or for a community member. The cost of materials would be the responsibility of the party receiving the completed shed. Students MUST have taken and successfully passed any of the following courses to be eligible for this class: Hand and Power Tool Technology, Manufacturing Systems I and II, Wood Systems, or Advanced Wood Systems.

0009	Advanced Animal Science I – Fall	0.50	11-12
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This course will include the study of veterinary science and its application of basic animal health principles and practices. Advanced Animal Science I will include the study of the place of animals and animal science in the lives of humans and the biological science of animal science. Labs will complement areas of instruction. Note: Students only taking Advanced Animal Science I will not be able to earn college credit for the course. To qualify for earning college credits, students must take both advanced courses and successfully pass a comprehensive exam at the end of the year.

0010	Advanced Animal Science II – Spring	0.50	11-12
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This course complements Advanced Animal Science I. Specific areas of study will include the animal industries and animals in society. Specific studies of large and small animals will be included. Selected veterinary skills will be addressed. Labs will complement areas of instruction. Note: This course is intended for students interested in either 2 or 4 years of agricultural study after high school. This course will meet the graduation project requirement. Students only taking Advanced Animal Science II will not be able to earn college credit for the course. To qualify for earning college credit, students must take both advanced courses and successfully pass a comprehensive exam at the end of the year.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0018	Landscape Design	0.50	11-12

This course will include the design, plant selection, installation, maintenance, and use of plants in the landscape; lawn and turf grass establishment and maintenance will also be included. Some activities will include the design of an outdoor landscape, maintenance of existing landscapes, plus selection and installation of selected plants in a landscape.

0023	Basic Wiring & Electricity	0.50	10-12
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Students will learn and demonstrate skills in planning and installing residential electrical systems, including the selection and installation of electric motors and controls. This course will include technical as well as practical instruction.

0029	Leadership Lab	0.50	11-12
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Many of the activities/topics included in all the Agricultural Education courses will be expanded upon in this course through Career Development Events/practicum participation. This course is designed to teach professional leadership skills, including time management, budgeting, business letters & communication, and handling conflict. Enrollment is recommended for all FFA officers and members interested in having a leadership role in the FFA, as well as leaders from other school organizations.

0022	Supervised Agricultural Experience	0.50	9-12
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This course is for the purpose of starting, maintaining, and completing an approved Supervised Agricultural Experience project(s). **This course will meet by appointment throughout the year.** FFA members will automatically be enrolled in this course as per the National FFA Constitution and By-Laws.

## Art

### Career Pathway: Visual Arts Design and Communication

#### Full Year Courses Grades 9 - 12

Design I 0049 1.00 credit

Ceramics I 0031 1.00 credit

#### Full Year Courses Grades 10 – 12

Design I 0049 1.00 credit

Ceramics I 0031 1.00 credit

Design II 0079 1.00 credit (prerequisite: Design I)

Drawing 0038 1.00 credit (prerequisites: Design I; instructor approval)

Photography I 0033 1.00 credit

Photography II 0080 1.00 credit (prerequisite: Photography I)

Ceramics II 0035 1.00 credit (prerequisite: Ceramics I)

#### Semester Courses Grades 11-12

Drawing 0092 0.50 credit (prerequisites: Design I; instructor approval)

Painting 0024 0.50 credit (prerequisites: Design I; Drawing; instructor approval)

Ceramics III 0083 0.50 credit (prerequisite: Ceramics II)

Ceramics IV 0084 0.50 credit (prerequisites: Ceramics III, instructor approval)

Sculpture 0048 0.50 credit (prerequisite: Ceramics I)

Portfolio I 0094 0.50 credit\* (prerequisites: see all prerequisites listed in the description below)

Portfolio II 0093 0.50 credit\* (prerequisites: see all prerequisites listed in the description below)

#### Full Year Course Grade 11-12:

AP Art History 1.00 credit (prerequisite: strong writing skills; 3.25 GPA advanced English courses recommended)

#### Full Year Course Grade 12:

AP Art and Design: Drawing, 2D, and 3D 1.00 credit (prerequisites: see all prerequisites listed in the description below)

\*Note: Advanced Portfolio I, Portfolio II, and AP Art and Design: Drawing, 2D, and 3D candidates (see descriptions below) are advised to schedule courses in the following sequence:

#### Grade 9:

Design I 0049 1.00 credit\*\*

Ceramics I 0031 1.00 credit\*\*

#### Grade 10:

Design I 0049 1.00 credit\*\* (if not completed in Grade 9)

Design II 0079 1.00 credit\* (prerequisite: Design I)

Drawing 0038 1.00 credit\*\* (prerequisites: Design I; instructor approval)

Ceramics I 0031 1.00 credit\*\* (if not completed in Grade 9)

Ceramics II 0035 1.00 credit\* (prerequisite: Ceramics I)

Photography I 0033 1.00 credit\*

#### Grade 11:

Painting 0039 0.50 credit\* (prerequisites: Design I; Drawing; instructor approval)

Sculpture 0048 0.50 credit\*\* (prerequisite: Ceramics I)

Portfolio I 0094 0.50 credit\*\* (prerequisites: see all prerequisites listed in the description below)



Grade 12:

Portfolio II 0093 0.50 credit\*\* (prerequisites: see all prerequisites listed in the description below)

AP Art and Design: Drawing, 2D, and 3D 1.00 credit (prerequisites: see all prerequisites listed in the description below)

\*\*Required Course \*Recommended Course

**Art**

<b>Code</b>	<b>Course</b>	<b>Credit</b>	<b>Grade(s)</b>
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0049	Design I	1.00	9-12
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Design I is an introductory level full-year course for beginning art students to explore the fundamentals.

Of design in two-dimensional and three-dimensional media. The course teaches the elements of art and

Principles of design as used in historical and contemporary artworks. Personal expression is encouraged.

Students use a variety of two-dimensional and three-dimensional visual arts media and processes.

Sketchbooks are a significant part of the course for the development of basic drawing skills and the

Planning of visual art assignments. Frequent class critiques offer students the opportunity to participate.

In a dialogue that will help them develop the vocabulary and visualization skills necessary for critical

Evaluation.

0079	Design II	1.00	10-12
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Design II is a full-year course that further develops student knowledge and skills in two-dimensional and

Three-dimensional media. The course extends the study of the elements of art and principles of design as

Used in historical and contemporary artworks. Student work incorporates more advanced use of a

Variety of two-dimensional and three-dimensional visual arts media and processes. Sketchbooks will

Continue to be essential for the increased development of drawing skills and artistic ideas.

Frequent class

Critiques offer students the opportunity to participate in a dialogue that will help them to develop the

Vocabulary and visualization skills necessary for critical evaluation. Prerequisite: Design I

0038	Drawing	1.00	10-12
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Drawing 0038 is a full-year course that will sharpen students' visual perception and the ability to draw from direct observation. Investigation of drawing techniques, media, and aesthetics structured upon a solid understanding the elements and principles of design will guide direct observational drawing.

incorporates various genres, including still-life, portrait and figure studies, landscape, and architectural

Interiors/exterior. Line, shape, value, color, texture, space, perspective, and compositional unity in

Terms of balance, repetition, variety, emphasis, contrast, and proportion will be explored through direct.

Observation utilizing a variety of traditional and contemporary media. Students will employ accuracy.

And expression as they progress to an increasingly sophisticated level of fluency in drawing and thematic

Development. Traditional and contemporary styles and trends in drawing will be explored through visual

presentation and research to provide diverse visual references to inform student work. Frequent class

critiques offer students the opportunity to participate in a dialogue that will help them to develop the

vocabulary and perceptual skills necessary for in-depth critical evaluation. Prerequisites: Design I; instructor approval

0033	Photography I	1.00	10-12
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Photography I is a full-year introductory course in black and white film photography. Students will explore basic photographic skills, including camera controls, negative exposure and development, exposing and developing contact prints and enlargements, and presentation. Students will investigate the elements of line, shape, texture, light, motion, and perspective in terms of their relationship to structure, balance, and dynamics—the essential components of excellent composition. Students are presented with an overview of the history of photography through slide presentations to provide numerous and diverse visual references to inform the development of student work. Frequent class critiques offer students an opportunity to participate in a dialogue that will help them to develop the vocabulary and visualization skills necessary for critical evaluation of photographic work.

**Students must provide their own 35mm manual SLR film camera.**

Code	Course	Credit	Grade(s)
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0080	Photography II	1.00	11-12
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Photography II is a full-year course that extends the investigation of black-and-white film

photography introduced in Photography I. Students will explore and refine photographic skills, including camera controls, negative exposure, and development, exposing and developing contact prints and enlargements, and presentation. Students will engage in a creative investigation of alternative techniques, processes, and materials. Students will complement studio practice with an increased art historical understanding of the photography medium through slide presentations to provide numerous and diverse visual references to inform the continued development of student work. Frequent class critiques offer students an opportunity to participate in a dialogue that will help them to refine the vocabulary and visualization skills necessary for critical evaluation of photographic work.

**Students must provide their own 35mm manual SLR film camera.**

Prerequisite: Photography I

0031	Ceramics I	1.00	9-12
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Ceramics I is a full-year course that provides an introduction to ceramics materials, techniques, and aesthetics. Students will produce both sculptural and functional objects. Fundamental explorations will include clay body components; basic hand-building techniques including pinch, coil, slab, and mold; wheel-throwing techniques; surface decoration, including texture, color, basic glaze composition and methods of application; and the firing process including common kiln types and stages of firing. The design elements and principles of space, proportion, placement, size relationships, weight balance, and volume are stressed to encourage an understanding of three-dimensional form. Traditional and contemporary styles and trends in ceramics will be explored through visual presentation and research to provide diverse visual references to inform student work. Frequent class critiques offer students the opportunity to participate in a dialogue that will help them to develop the vocabulary and perceptual skills necessary for in-depth critical evaluation.

0035	Ceramics II	1.00	10-12
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Ceramics II is a full year course that extends the investigation of ceramic materials, techniques and aesthetics introduced in Ceramics I. Students will explore more in-depth utilization of the forming processes of hand-building and wheel-throwing to produce sculptural and functional objects that express the visual, tactile, and intellectual possibilities available through the medium of clay. Students will be challenged to explore the relationship between material and the effective communication of ideas. Experimentation with alternative clays and other media will be used to extend and refine communication. Students will research specific periods in ceramic history as well as the work of innovative contemporary ceramic artists.

Prerequisite: Ceramics I

<b>Code</b>	<b>Course</b>	<b>Credit</b>	<b>Grade(s)</b>
0092	Drawing	0.50	11-12

Drawing 0092 is a semester course that will sharpen student visual perception and the ability to draw from direct observation. Investigation of drawing techniques, media, and aesthetics structured upon a solid understanding of the elements and principles of design will guide direct observational drawing that incorporates various genres including still-life, portrait and figure studies, landscape, and architectural interiors/exterior. Line, shape, value, color, texture, space, perspective, and compositional unity in terms of balance, repetition, variety, emphasis, contrast, and proportion will be explored through direct observation utilizing a variety of traditional and contemporary media. Students will employ accuracy and expression as they progress to an increasingly sophisticated level of fluency in drawing and thematic development. Traditional and contemporary styles and trends in drawing will be explored through visual presentation and research to provide diverse visual references to inform student work. Frequent class critiques offer students the opportunity to participate in a dialogue that will help them to develop the vocabulary and perceptual skills necessary for in-depth critical evaluation.

Prerequisites: Design I; instructor approval

0024	Painting	0.50	11-12
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Painting is a semester course that will sharpen student visual perception and the ability to paint from direct observation. Students will develop an increasingly sophisticated understanding of all aspects of color theory including color foundations of value, hue, chroma, color temperature, color mixing and communication of meaning. Investigation of painting techniques, media, and aesthetics will be structured upon a strong foundation of established observational drawing experience. The elements and principles of design will guide direct observational painting that incorporates various genres including: still-life, portrait and figure studies, landscape, and architectural interiors/exterior. Students will employ accuracy and expression as they progress to an increasingly sophisticated level of fluency in painting and thematic development. Traditional and contemporary styles and trends in painting will be explored through visual presentation and research to provide diverse visual references to inform student work. Frequent class critiques offer students the opportunity to participate in a dialogue that will help them to develop the vocabulary and perceptual skills necessary for in-depth critical evaluation.

Prerequisites: Design I; Drawing, instructor approval

0083	Ceramics III	0.50	11-12
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Ceramics III is a semester course that offers students an extension of the investigation of ceramic materials, techniques, and aesthetics explored in Ceramics II. Students will engage in more in-depth utilization of the forming processes of hand-building and wheel-throwing to produce

sculptural and functional objects that express the visual, tactile, and intellectual possibilities available through the medium of clay. Students will be increasingly challenged to explore the relationship between materials and the effective communication of ideas. Advanced experimentation with alternative clays, combined forming methods, increasingly advanced surface decoration, and additional firing techniques continue to offer diverse options to draw upon to extend and refine communication. Students will engage in in-depth research of specific periods in ceramic history as well as the work of innovative ceramic artists through various resources including museum and gallery visits. Class critiques offer students an opportunity to participate in a dialogue that will help them to refine the vocabulary and visualization skills necessary for critical evaluation of ceramic work.

Prerequisite: Ceramics II.

<b>Code</b>	<b>Course</b>	<b>Credit</b>	<b>Grade(s)</b>
0084	Ceramics IV	0.50	11-12

Ceramics IV is a semester course that offers students an intensive extension of the investigation of ceramic materials, techniques, and aesthetics explored in Ceramics III. Students will engage in advanced, concentrated study of Ceramics designed to develop the student's individual style, technique, and personal idiom of expression toward the production of a coherent body of work for portfolio review and exhibition. Students will engage in in-depth research of specific periods in ceramic history as well as the work of innovative ceramic artists through various resources including museum and gallery visits.

Ongoing individual critiques offer students an opportunity to participate in a dialogue that will help them to refine the vocabulary and visualization skills necessary for critical evaluation of ceramic work. Successful completion of this course will require additional studio time outside of class.

Prerequisites: Ceramics III; instructor approval

0048	Sculpture	0.50	11-12
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Sculpture is a semester course that will increase student understanding of three-dimensional form and space. The design elements and principles of space, proportion, placement, size-relationships, weight, balance, and volume will guide initial classical investigation of the human form through direct observation and manipulative processes with clay. Students may additionally explore additive, subtractive, and substitution processes utilizing a variety of media. Students will employ accuracy and expression as they progress to an increasingly sophisticated level of fluency in sculpture and thematic development. Traditional and contemporary styles and trends in sculpture will be explored through visual presentation and research to provide diverse visual references to inform student work. Frequent class critiques offer students the opportunity to

participate in a dialogue that will help them to develop the vocabulary and perceptual skills necessary for in-depth critical evaluation.

Prerequisite: Ceramics I

0094	Portfolio I	0.50	11-12
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Portfolio I is designed to support an intensive investigation of 2D and 3D applications that expands upon the structured explorations established in all required foundational courses. Advanced students will begin in-depth development of a portfolio of work for admissions review at post-secondary competitive professional art schools and university art programs. Student portfolios will reflect breadth, depth, excellence, and the emergence of a personal voice through an emphasis on concept development that allows each student to research and explore enduring ideas, individual interests, and experimental methods. Traditional and contemporary artists/artworks serve to inform student development through discussion, presentation, and interaction at art museums and galleries. Individual and class critiques will be ongoing to promote increased sophistication in the communication of ideas. Portfolio I students will need to devote additional time outside of class to the development of their work.

Prerequisites: instructor approval; Department of Art lead teacher approval; successful completion of Design I, Drawing, Ceramics I, Painting, Sculpture

<b>Code</b>	<b>Course</b>	<b>Credit</b>	<b>Grade(s)</b>
0093	Portfolio II	0.50	11-12

Portfolio II is designed for advanced visual art students to support a continued intensive investigation of 2D and 3D applications that expands upon the structured explorations established in all required foundational courses and in Portfolio I. Advanced students will continue in-depth development of a portfolio of work for admissions review at post-secondary competitive professional art schools and university art programs. Student portfolios will reflect breadth, depth, excellence, and the emergence of a personal voice through an emphasis on concept development that allows each student to research and explore enduring ideas, individual interests, and experimental methods. Traditional and contemporary artists/artworks serve to inform student development through discussion, presentation, and interaction at art museums and galleries. Individual and class critiques will be ongoing to promote increased sophistication in the communication of ideas. Portfolio II culminates in a cohesive body of work that reflects a concentration of concept development and individual voice. Students will present a senior portfolio exhibition and artist's statement. Requirements for Portfolio II will be rigorous; students will need to devote significant time outside of class to the development of their work.

Prerequisites: Portfolio I. instructor approval, Department of Art lead teacher approval

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AP Art History

1.00

11-12

AP Art History is a full year course designed to be the equivalent of a two-semester introductory college or university art history survey course. In this global, chronological survey spanning 30,000 years of art history, the course will provide students with knowledge and understanding of architecture, sculpture, painting, and other art forms from diverse global, historical, and cultural contexts. Students become active participants in the global art world, engaging with its forms and content, as they experience, research, discuss, read, and write about art, artists, art making, and responses to and interpretations of art. The central questions of this course include the following: What is art and how is it made? Why and how does art change? How do we describe our thinking about art? Students explore the essential ideas of AP Art History, which focus on an artwork’s meaning and function, its maker’s methodology, and the ways it reflects and affects its historical and cultural context. AP Art History is organized into ten cultural/chronological units, beginning with works of art from global prehistory and ending with global works from the present time. Each content area is represented by a specified number of works of art within an image set of 250 works. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnections of art making throughout history. Students develop critical thinking and visual literacy skills which apply to diverse disciplines and prepare students to construct and interpret meaning from any artwork they encounter throughout their lives. The AP Art History Exam consists of two sections that are each worth 50% of the total score: Section I includes 80 multiple choice questions, and Section II includes 6 free-response long and short essay questions.

Prerequisites: Strong writing skills; 3.25 cumulative GPA in advanced English courses recommended.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
#####	AP Art and Design: Drawing, 2D, 3D	1.00	12

AP Art and Design consists of three different courses and AP Portfolio Exams: AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing. Each AP course and AP Portfolio Exam is designed to be the equivalent of a one-semester, introductory college course in 2-D art and design, 3-D art and design, and drawing. Over the course of a year, students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas. Portfolios include works of art and design, process documentation, and written information about the work presented. AP Art and Design courses address the following learning outcomes: the ability to (1) conduct a sustained investigation through practice, experimentation,

and revision, guided by questions; (2) skillfully synthesize materials, processes, and ideas; and (3) articulate, in writing, information about one's work. AP Art and Design skills include: inquiry and investigation; practice, experimentation, and revision; and communication and reflection. All three AP Art and Design Portfolio Exams contain two sections. (1) The Selected Works section (40% of Total Score) requires students to demonstrate skillful synthesis of materials, processes, and ideas. Five physical works are required in the Selected Works section for Drawing and 2D Art and Design; 10 digital images are required for 3D Art and Design. The Sustained Investigation section (60% of Total Score) requires students to conduct a sustained investigation based on an inquiry of the student's choosing. The work in this section should reflect ongoing practice, experimentation, and revision. Fifteen digital images of work are required in the Sustained Investigation section. Both sections of the portfolios require students to articulate information about their work. Students may choose to submit any or all of the AP Portfolio Exams.

Prerequisites: Portfolio I, Portfolio II, Department of Art lead teacher approval

## **Business**

**Career Pathways: Arts, Business, and Social Services**



<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0050	Introduction to Business	1.00	9-12

The course provides an overview of the various business disciplines, including economics, marketing entrepreneurship, accounting, international business, business ethics, and personal finance. Recommended for students interested in learning more about business careers.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0053	Accounting	1.00	9-12

Accounting is the backbone of business. This course will introduce students to the basic accounting cycle. Students will learn double-entry accounting, preparation of financial statements for sole proprietorships and partnerships. Additionally, students will manage ledgers and prepare payroll records. Students will apply the skills acquired by completing a business simulation that requires students to complete the accounting cycle for a business for one monthly. Students will perform the accounting for a partnership and be introduced to special journals and ledgers. Prerequisite for Advanced Accounting.

#####	Personal Finance	1.00	10-12
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In Personal Finance, the student will learn how to manage a checking account, use credit, file income tax returns, develop budgets, invest savings and purchase insurance. Consumer protection issues will be explored and spreadsheet software will be used to create budgets. This course is not open to students who have completed Introduction to Business.

91390	Computer Science Discoveries	1.0	9-12
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This course will introduce students to topics connected to the technologies that we use every day to solve problems. Students will be empowered to create authentic tools such as web pages, physical computer devices, apps and games using basic coding. Students will explore how computers interpret data and generate our digital footprint as well as expand on their understanding of the hardware components that make up the computer system.

CSD students explore the following topics during a full year course: problem solving, programming, web development, animations and games, the design process, data and society, and physical computing.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
91284	AP Computer Science Principles	1.0	9-12

91285

The AP Computer Science Principles course is designed to be equivalent to a first- semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course engages students in the creative aspects of the field by allowing them to develop computational artifacts based on their interests. Students will also develop effective communication and collaboration skills by working individually and collaboratively to solve problems, and will discuss and write about the impacts these solutions could have on their community, society, and the world.

##### Video Game Design 1.0 10-12

Video Game Programming and Design provides students with an entry point to design, program, and create fully functional video games. The course will introduce basic programming and design skills that are essential to developing a video game. Students taking the course will develop the practical skills related to using Unity and scripting languages that are applicable to fields outside of video game development. Recommended for students interested in learning more about gaming, programming, or computer science-related careers.

##### Video Game Design II 1.0 11-12

Video Game Programming and Design II is an advanced course building upon the foundations laid in Video Game Programming and Design I. Students will refine and grow their abilities as a game by engaging in practical projects using Unity and the C# programming language. 2D, 3D, and virtual reality games will be explored, discussed, and produced by students in this course. Artificial intelligence for asset production and code creation/refinement will also be included. Students will also need to engage and produce artifacts that demonstrate their mastery of theoretical concepts such as storytelling, game production, and understanding what makes a game “fun.”

PREREQUISITE: Video Game Programming and Design I

**English Course Sequence Summary**  
**Career Pathways: Arts and Communication**

Grade 9:	English I Advanced English I
Grade 10:	World Literature Advanced World Literature
Grade 11:	American Literature Advanced American Literature AP English Language and Composition
Grade 12:	Modern Novels/British Literature AP English Literature and Composition English Semester Electives CTC English

Requirements for Advanced Courses:

1. Teacher recommendation
2. 3.00 cumulative average in subject area.

**English**

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0100	Advanced English I	1.00	9

This is an advanced English course for students with high ability and achievement. This course includes a challenging curriculum incorporating literature, composition, traditional and electronic research, public speaking, vocabulary development, and grammar usage. Prerequisite: Teacher recommendation, a PSSA score of 1650 in Reading and 1300 in Writing for English and 3.25 cumulative average in English.

0101	English I	1.00	9
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This course is an academic course that serves as a transition from the development of basic communication skills to the appreciation of literature. This course will also include composition writing, public speaking, vocabulary development, grammar and usage, and research skills using traditional and electronic resources. This course will begin to prepare students for college, a technical institute, or the workforce.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0105	Advanced World Literature	1.00	10

This course provides a challenging enhancement of skills developed in Advanced English I. A course for students with high ability and achievement, this course stresses international and multicultural literature as well as composition. Research, using traditional and electronic methods, will be required. Vocabulary, public speaking, and grammar and usage continue to be developed in this course. Prerequisite: Teacher recommendation and a 3.25 cumulative average in English.

0106	World Literature	1.00	10
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This course provides an academic curriculum that prepares students for post-secondary education as well as school-to-work programs. The curriculum includes a study of international and multicultural literature in addition to composition, public speaking, vocabulary for SAT preparation, and grammar. Students will build on their research skills by completing a project that contains a thesis and documentation of sources.

60872	Advanced American Literature	1.00	11
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This course will explore literature beginning with the Native Americans up to the works of authors of science fiction. Students will write in a variety of genres to explore the various authors' styles as well as to develop an individual voice. Research and technological sources will be used through the course to enhance appreciation and exhibit comprehension of the literature and related periods. The mastery of selected vocabulary in preparation for the SAT and PSSA will also be emphasized.

60873	American Literature	1.00	11
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This course aims to develop an appreciation of classic American authors and writings, crafted during the country's early settlement years through the period of science fiction. Critical readings and writings will be utilized to further develop the student's individual voice and style in composition. The mastery of selected vocabulary in preparation for the SAT and PSSA will also be emphasized.

0111	Acting	0.50	11-12
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Students will work in a hands-on approach to the world of acting by learning about and demonstrating various styles such as Method and Reader's Theatre. This course will involve individual and group work. It will require the students to be up in front of the class often. This course will give students stronger communication skills.

0113	Creative Writing	0.50	11-12
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The course is designed to offer students the opportunity for expression in poetry, descriptive sketches, short stories, narratives, and one-act play writing. Journals and activities to cultivate creativity will precede many of the written assignments. Opportunities for publication will be provided through the literary magazine and various contests. Submission to the Scholastics Writing Competition will be the end product for the fall semester. Publishing of the literary magazine will be a hands-on product of the course, and students will gain the computer/technology skills necessary for the production.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
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0116	Modern Novels	0.50	11-12
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Students will be given a choice of selected modern novels in which to interpret internally (text) and externally (impact of the piece). Students will gain argumentative skills and be exposed to the interpretations of their peers and scholarly critics. This course will prepare college-bound students for critical analysis.

0117	Journalism	0.50	11-12
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This course investigates the elements of news, the composition of news, and the delivery of the news. This is a hands-on course that requires regular research and writing of articles, as well as learning to design and layout a page. Also taught is basic photo composition, the history, and the laws and ethics that govern journalism.

0120	Modern Short Stories	0.50	11-12
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This course covers the study of the art and technique of selected masters of the short story from 1900 to the present. Students will read, discuss, and analyze the short story as a specific literary genre. The



0131	Advanced Placement English	1.00	12
0132	Literature & Composition		

AP English Literature and Composition is introductory college-level course centers on the reading, discussion, and interpretation of literature as well as a rigorous approach to composition and literary analysis. Students are expected to have superior writing skills. A student may take the AP English Lit examination at the end of the course.

Prerequisite: Teacher recommendation and 3.25 cumulative average in English.

####	English for Career Development	1.00	11-12
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English for Career Development prepares students for their future careers by focusing on every day and job-related practical applications of writing and language. Students will begin by increasing their skills in using word processing programs such as Microsoft Word and Google Docs. They will then apply those skills by focusing on strengthening their resume writing, cover letter writing, and job interview techniques. The class will then guide students through proper email and messaging communication. The class concludes with students investing in the process of completing lengthy applications such as job applications, college or trade school applications, and grant writing.

####	Writing for College Readiness	1.00	11-12
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Writing for College Readiness will expose students to a variety of writing tasks that will help to prepare them for the college classroom. Students will be expected to write college admissions essays, scholarship essays, annotated bibliographies, research reports using secondary sources, as well as complete research presentations. Students will explore topics that lend themselves to MLA formatting as well as APA formatting. Likewise, assessment will rely heavily on student writing involving student choice for topic selection.

**Family and Consumer Science**  
**Career Pathways: Arts, Business and Social Services**

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0301	Life Skills	1.00	9-12

This course will help students develop knowledge and skills that are needed to survive & thrive in the 21<sup>st</sup> Century. The concepts covered in the course will benefit students as they prepare for life as an adult, employee, family member, and community member. The unit of study topics include problem solving in the community; family & community; design; finance, income, & careers; consumerism; nutrition; & an introduction to child development. Project-based learning will be the primary method for students to experience and apply a variety of real-life skills.

0302	Child Development	1.00	10-12
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This course will help to make students aware of the mental, physical, and financial requirements needed to be a caregiver for a child or children. It begins with several units that focus on the general needs of children, families, and caregivers. The course continues with units that involve prenatal care of mother and child and the development and care of the infant from birth until age one. **Students will be required to participate in the Baby Think It Over program over the length of one full weekend. It will require responsibility for expensive equipment and will be counted as a major project.** The course will continue with a focus on the toddler and preschool-age child in key areas of growth (intellectual, physical, social, moral, and emotional). Study will continue through a child's growth in all areas through the pre-teen age group. Special topics will also include caring for exceptional children and child safety and health.

0306	Family Management	0.50	10-12
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This course will prepare the student for independent living and family management. The family is discussed and how it survives within the ever-changing global community. The course concentrates on the qualities of strong families, roles, and relationships within families, living on your own, financial responsibility, and other key management skills. Projects include family schedules, car buying and insurance, financial planning, and other projects that attempt to simulate family management.

0307	Fashion and Fabric	0.50	10-12
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This is a course for the student who is interested in the world of fashion and wants to develop basic sewing skills and techniques. The course begins with a background on fashion and textile history and then continues with the practical use of sewing equipment. **Students will be required to**



**purchase materials pertinent to at least two sewing projects.** Students' first project will be for charity, following project(s) will be for personal use.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0309	Nutrition I	0.50	11-12

This course is designed to provide students with the knowledge and skills a person needs to be able to make good choices for a nutritional diet. Besides learning how to make nutritional choices, students will learn more about why this is so important for our health now and later. After a brief study of safety in the kitchen, students will learn about the nutrients and their use in our bodies. Additionally, students will spend time learning to interpret food and nutritional information as well as the importance of these skills. Finally, dietary modifications and their ability to improve our health will be covered.

0310	Nutrition II	0.50	11-12
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This course is designed to build upon everything covered in Nutrition I to enhance knowledge and skills in this area. Within this class, students will learn about meal planning, food science and our food supply, the global food supply, and the government's role in our food. More importantly, students will learn about how each of these factors have an impact on our own food supply, our own food choices, and our own nutrition. Prerequisite: Nutrition I.

0308	World Foods	0.50	11-12
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This course is a cultural travel through foods. Within this class, students will identify a wide variety of different cultural foods found throughout the world. Students will study global locations such as Latin America, Europe, the Mediterranean, the Middle East, Africa, and Asia and prepare foods special to those areas. Students will be required to research the influences of the cuisine made by geography, cultural impacts, and the countries' economics. Prerequisite: Nutrition I.

## GIFTED PROGRAM

60277	Full Year	1.00 credits
60999	Full Year	1.00 credits
90740	Semester 1	0.5 credits
90741	Semester 2	0.5 credits
90712	Full Year	1.00 credits

<u>Code</u>	<u>Course</u>	<u>Credit</u>
<u>Grade(s)</u>		
60999 & 60277	Gifted Application A & B	Full Year
credits		1.00

Gifted Application is an elective enrichment course designed to challenge gifted students while enhancing real-world skills through project-based and inquiry-based learning. Additionally, skills such as teamwork, time management, and risk-taking will be developed. This class centers on high-level competitions that occur at the local, regional and national levels. Preparation, practice, and competitions will serve as instructional units. Assessments will be based on a rubric containing aspects of the competition process: communication, participation, teamwork, etc.

90740 & 90741	<i>Gifted Explorations A &amp; B</i>	Semester	0.5 credits
11-12			

The Gifted Explorations course is an elective enrichment course designed to allow gifted students to explore fields of study not offered elsewhere during their high school career. Units have included the study of sports, 20<sup>th</sup>-century music, board game design, and animation. Assessment is often done through writing, although every unit contains a large creative project. GIS is to be scheduled following a conference with the Gifted Instructor. The conference will occur at the beginning of the school year. This course is offered in both the traditional and blended format.

90712            *Gifted Independent Study (GIS)*            Full Year            1.00 credits  
 11-12

A student enrolling in a GIS is expected to generate a project idea that they will implement with the help of a faculty mentor. Upon completing the project, students will present their results in a formal setting to a grading committee, who will assess and assign a letter grade. Since there are very few deadlines, time management is an important skill that will be developed/improved through the *GIS* process. Past projects have included the creation and performance of original music, architectural design, a political internship, and research papers, among others.

#####            Introduction to Film            Full Year            1.00 Credits  
 11-12  
 (Pitt College in High School)

This dual-enrollment class offers gifted students a broad introduction to the medium of film while inviting conversations about film’s connection to other arts, including photography, painting, theater, and web video. The course teaches students with no background in media studies how to analyze media in terms of art, industry, and culture. The class will consider such issues as: the process of contemporary film production and distribution; the nature of basic film forms; selected approaches to film criticism; comparisons between film and other media; genre; auteurism; marketing; diversity of representation. Students may earn 3 University of Pittsburgh credits.

**Mathematics Course Sequence Summary  
 Career Pathways: Engineering, Science and Technology**

	Advanced Math	College Prep
9 <sup>th</sup>	Advanced Algebra 2 0496	Algebra 1 0413
10 <sup>th</sup>	Advanced Geometry 0563 *AP Stat **AP Computer Science A	Algebra 2 0564
11 <sup>th</sup>	Advanced Trig/Calculus 60879 *AP Stat **AP Computer Science A	Geometry 0415  *AP Stat **AP Computer Science A
12 <sup>th</sup>	AP Calculus AB 0441 & 0442            and/or AP Calculus BC 0557 & 0558            and/or	Trig/Pre-Calc 0570  *AP Stat **AP Computer Science A

AP Statistics 0443 & 0444           and/or College Algebra 0436 & 0437 and/or College Algebra/HACC 60672 ** AP Computer Science A	
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Electives may be taken **concurrently** not in place of the required courses in 10<sup>th</sup> or 11<sup>th</sup> grade  
\* AP Statistics 0443 & 0444 \*\* AP Computer Science A 91263 & 91286

Notes:

1. Three (3) credits of Mathematics are required for graduation.
2. Geometry and Algebra II are two (2) distinct courses which may be taken simultaneously in order to better prepare the student for college.
3. AP Statistics is an elective. Students in 10<sup>th</sup> and 11<sup>th</sup> grade may take it simultaneously with another math class. Seniors may take it as their fourth year of math.
4. AP Computer Science A is an elective. Taking this class does not replace a math class nor count as a 4<sup>th</sup> year of math credit.

To Enter and remain in Advanced Math Courses, students are required to have:

1. Teacher recommendation.
2. A Proficient or Advanced Score on the Keystone Algebra I Exam
3. 3.00+ (B or higher) cumulative grade point average in math.

### Mathematics

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0496	Advanced Algebra II	1.00	9

This is the 9<sup>th</sup> grade offering in the accelerated sequence for those students who successfully complete Adv. Algebra I in the 8<sup>th</sup> grade. Emphasis in this course is placed on real and complex numbers, linear and quadratic equations, systems of equations, series and sequence, and polynomial functions and logs. Students must have their own scientific or graphing calculator. Prerequisite: 8<sup>th</sup> grade Adv. Algebra I.

0412	Algebra II	1.00	9 -10
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The topics covered in Algebra II are Quadratic Functions and Graphs, Polynomial Functions and Graphs, Variation Functions and Graphs, Rational Functions, Powers and Roots, Exponential and Logarithmic Functions, Probability and Sequence and Series. Prerequisite: Algebra 1.

This course may be taken simultaneously with Geometry.

0413	Algebra I	1.00	9-10
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This course focuses on the real number system and the basic skills essential for problem-solving. Students will solve and graph systems of linear equations and inequalities, simplify and graph polynomial expressions, basic data analysis, and probability. Prerequisite: Any student entering high school who has not earned an Algebra I credit.

0563	Advanced Geometry	1.00	10
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This branch of mathematics is concerned with plane figures such as angles, triangles, and quadrilaterals. It considers relationships that are true in a plane and extends these relationships to similar ones that are true in 3 dimensions. The students will also be introduced to concepts of analytic geometry. Prerequisite: Algebra II.

0415	Geometry	1.00	10-11
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This course deals with two-dimensional and three-dimensional figures. We will be comparing figures for congruency and similarity. Volume and surface area will also be covered. Geometry will aid in the development of logical reasoning. Prerequisite: Algebra II.

0443 & 0444	Advanced Placement Statistics*	1.00	10-12
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AP Statistics is a full year course aimed at developing analytical and critical thinking skills as you learn to describe data patterns and departures from patterns, plan and conduct studies, use probability and simulation to explore random phenomena, estimate population parameters, test hypotheses, and make statistical inferences. A graphing calculator is required. This course will satisfy the graduation project. College credits could be earned pending the satisfactory performance on the Advanced Placement Exam.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
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60879	Advanced Trigonometry and Introduction to Calculus	1.00	11
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Emphasis in this course is on the following functions: logarithms, trigonometry and an introduction to pre-calculus topics, limits and continuity, derivatives and applications of derivatives. This course is not meant to replace college calculus. Prerequisite: Geometry.

0570	Trigonometry and Pre-Calculus	1.00	11-12
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This course will begin with an intensive study of trigonometry and then proceed to advanced topics such as vectors and logic, conics, statistics and probability, with a focus on projects. Students will also begin a study of many topics of traditional pre-calculus courses including limits and continuity. Prerequisite: Geometry

0436	College Algebra – Part I	0.50	12
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This course will be an extension of Trig and Pre-Calculus at a more in-depth level. It is recommended for the college bound senior not planning to major in math or science. Topics covered will include fundamental algebraic operations, exponents and radicals, functions and graphs. Students are encouraged to have their own graphing calculator. Prerequisite Advanced Trig/Calc. or Advanced Trig & Calc.

0437	College Algebra – Part II	0.50	12
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This course will continue the topics covered in College Algebra – Part I and also include systems of equations, higher degree equations and inequalities, logarithms, and matrices. Students are encouraged to have their own graphing calculator. Prerequisite: College Algebra – Part I. College credit could be earned pending satisfactory performance on the college level examination program exam (CLEP test)

0441	Advanced Placement Calculus AB*	1.00	12
0442			

Calculus AB is a full year course in single-variable calculus that includes techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. It is equivalent to at least a semester of calculus at most colleges and universities, perhaps to a year of calculus at some. Algebraic, numerical, and graphical representations are emphasized throughout the course. A graphing calculator is required. This course will satisfy the graduation project. College credits could be earned pending the satisfactory performance on the Advanced Placement Exam. Prerequisite: Trig/Calc. or Advanced Trig/Calculus

0557	Advanced Placement Calculus BC*	1.00	12
0558			

Calculus BC is a full year course in single-variable calculus that includes all the topics of Calculus AB (techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus) plus additional topics in differential and integral calculus (including parametric, polar, and vector functions) and series. It is equivalent to at least a year of calculus at most colleges and universities. Algebraic, numerical, and graphical representations are emphasized throughout the course.  
 Prerequisite: Trig/Calc. or Advanced Trig/Calculus

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
91263 91268	Advanced Placement Computer Science A	1.00	10-12

The course introduces students to computer programming with fundamental topics that include problem solving, design strategies and methodologies, organization of data, approaches to data processing, analysis of potential solutions and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. Students must have a solid understanding of mathematical reasoning and the concepts of algebra including function notation. This course may be taken in addition to the required courses in mathematics.

**Music**  
**Career Pathways: Arts and Communication**

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0450	Band	1.00	9-12

Band is designed to give students a comprehensive understanding of music through performance experience. Membership is based on playing ability and the need to maintain well-balanced instruction. The band meets every day. Attendance at out-of-school performances is required.

0456	Chorus	1.00	9-12
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Chorus is designed to give students a comprehensive understanding of music through a performance experience. No tryouts are held for the group – interest is the only prerequisite. Chorus is held every day. The chorus performs at the Holiday Concert, the Spring Choral Concert and the Spring Combined Concert.

0460	Orchestra	1.00	9-12
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Orchestra is designed to give students a comprehensive understanding of music through performance experience. No auditions are required of string players. However, wind and percussion players are selected on the basis of the individual's ability and the need to maintain well-balanced instrumentation. Attendance at out-of-school performances is required.

0461	Piano Keyboarding	1.00	9-12
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This course is designed for any student with no previous piano or instrumental experience. Students will learn basic staff notation, simple piano chording, scales, major/minor keys and key signatures, and basic piano literature found in the interactive workbook. This class is self-driven and allows you to move at your own pace. This class is a yearlong class that incorporates both Piano Keyboarding I and Piano Keyboarding II.

0459	Chorale	1.00	10-12
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**Admission is by audition only.** This select vocal ensemble provides a comprehensive understanding of music through performance experiences including the Winter, Spring Choral and





**Science Course Sequence Summary**  
**Career Pathways: Engineering, Science and Technology**

Grade 9	Advanced Biology Earth and Space Science
Grade 10	Advanced Chemistry (must have completed or concurrently taking Algebra II) Biology
Grade 11	Physics Chemistry Advanced Placement Physics 1
Grade 12	Advanced Placement Biology (Grade 11 or 12) Advanced Placement Chemistry (Grade 11 or 12) Advanced Placement Physics (Grade 12) Physics

Note: Three (3) credits of science are required for graduation

Requirements for Advanced Biology Course:

1. Teacher recommendation.
2. 3.25 cumulative average in subject area and math.

3. Students who chose not to continue in Advanced Science courses must take Earth & Space Science.

### Science

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0607	Advanced Biology	1.00	9

This course is a system/applications approach to the learning of fundamental biological concepts. This is an accelerated course stressing biochemistry, cell biology, genetics, and ecology. A short unit on the biological kingdom is included. Students will have the opportunity to learn and practice skills used in the learning and study of biology and the development of specific technical research skills used in biology. Prerequisite: CDT Science score, Grade 8 Science Course grade, and teacher recommendation.

0610	Earth & Space Science	1.00	9
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This course is an academically oriented study of geology, astronomy, meteorology and oceanography. The course provides students with the basic knowledge of earth and space science as it relates to them and to their range of experiences. Students will also use their abilities to develop an appreciation of the basic concepts in earth and space science.

0615	Advanced Chemistry	1.00	10
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0646	Environmental Studies	0.50	11-12
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This is a semester course which focuses on an awareness of environmental issues and their impact on humans and ecosystems. Students will gain knowledge of basic ecological structure, function, principles, and interrelationships of ecosystems. Topics include discussion on issues such as hunting, tropical rainforest, energy production, and the ozone. Prerequisite: Biology.

0647	Microbiology – Spring Semester	0.50	11-12
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This course is a semester, lab-oriented course which focuses on an awareness of microbes and their impact on the environment and humans. Students will gain a knowledge of viruses, bacteria, protozoa, and fungi. Topics include infectious diseases, antibiotic use and parasitic relationships. This course is geared towards college bound science and non-science majors. Prerequisite: “C” or higher in Biology. This course is offered in both the traditional and blended format.

0651	Astronomy	0.50	11-12
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This course is a semester elective which focuses on an awareness of astronomical objects, concepts, theories and issues of space exploration and travel. Mathematical equations will be utilized to perform numerous calculations related to celestial and planetary motion.

####	Natural Disasters	0.50	11-12
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This is a semester elective that focuses on various categories of natural disasters and how they impact living things and their surroundings. Students will learn the underlying causes and effects of each disaster, where they most commonly occur, and steps that can be taken to adapt or mitigate the impacts of these disasters. Topics include Earthquakes, Landslides, Storms, Space Objects, and Climate Change.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
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0653	Dissecting the Animal Kingdom	0.50	11-12
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This is a semester, lab-oriented course stressing an anatomical approach through a survey of the animal kingdom. This course will provide several in depth, detailed dissection opportunities of selected invertebrate and vertebrate species. Students must be comfortable with the physical investigation techniques of dissection. Prerequisite: “C” or higher in Biology.

0601	Forensic Science	0.50	11-12
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Forensic Science is the study and application of science to the legal system. In recent years, it has become the theme of various television programs and documentaries. This class appeals to the detective in people. Forensic Science is multi-disciplinary and integrates concepts from science, social studies, math and language. The primary focus of the course will be the practice of forensic science and the analysis of physical evidence. It is a research and lab-based course in which students must work safely and efficiently. Those enrolling in this class should have earned at least a “C” in academic chemistry.

0619            Advanced Placement Physics            1.00            12  
0620

This course is taught at the same level as a college freshman course in physics. Those enrolling in this class must have a cumulative GPA of 3.25 or better in science/math courses and department recommendation. This course will emphasize basic and fundamental physics principles in greater depth compared to the general physics course. Topics will include mechanics, electricity and magnetism. This course is designed to prepare students for the AP test covering College Board Physics C. AP Calculus must be taken concurrently with AP Physics. Prerequisite: Algebra II/Trigonometry.

#####            Advanced Placement Physics I            1.00            11-12

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

**Social Studies Course Sequence Summary**  
**Career pathways: Business, Higher Education, Social Services, and Advocacy**

Grade 9	American Studies
Grade 10	Western Civilization
Grade 11	Advanced Placement United States History Advanced Placement European History American Studies
Grade 12	Advanced Placement United States History Advanced Placement European History

Note: 1. Three (3) credits of social studies are required for graduation.  
One credit must be American Studies or AP American History.

Requirements for Advanced Courses:

1. Teacher recommendation
2. 3.25 cumulative average in subject area.

## Social Studies

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0701	World Cultures	1.00	9

This course explores the non-western areas of the world. The geography, history, technology, and cultural achievements of the various areas are studied in relation to the United States and its people. World Cultures will also examine how various culture's view religion, trade, and customs. It will address cultural diversity and multicultural issues across a broad spectrum of topics.

0702	Western Civilization	1.00	10
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This course explores the geography, history, politics, and culture of Europe from 1450 through the 21st Century. Students will study the history of Europe, starting with the Renaissance, the rise of monarchies, the Age of Revolutions, as well as World War I , and the rise of dictators.

0717	Advanced Placement	1.00	10-12
0718	European History		

Advanced Placement European History will introduce students to cultural, economic, political, and social developments that had a major role in shaping the world from 1450 to the present. The course will also provide a basic narrative of events and movements throughout Europe with a focus on the themes of modern Europe. Students will analyze historical evidence as well as express historical understanding through writing as they examine Europe and its relationship to other parts of the world. Scheduling for 10<sup>th</sup> graders will be by teacher and counselor recommendation.

60878	American Studies	1.00	11
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This course explores the history, government, culture, and society of 20th century America. Areas of scope and focus include, Industrialization, the Progressive Era, the Roaring Twenties, the Great Depression, and Civil Rights as well as America's military role in both World Wars and the Cold War. Students will also engage in research and critical analysis to gain a deeper understanding of the complexities of American society and culture. This course will encourage students to critically analyze and understand America's development and identity.

0715 & 0716	Advanced Placement United States History	1.00	11-12
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This course is a survey of American history from the colonial period until the present. Students will acquire an understanding for the methods of history and discover that history includes controversies and complex ideas. Writing skills are also emphasized. A cumulative average of





0069	Law and Society	0.50	11-12
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Law and Society introduces students to the core principles of democracy, liberty, justice and due process in America. You will explore the foundations of our legal system, uncovering the rights and responsibilities of citizens that shape our society. Through thought-provoking discussions, interactive activities, and real-life case studies, you will gain a deeper understanding of the laws that govern your community, state, and nation, and how they impact your daily life.

0712	Cultural Diversity in American Society	0.50	11-12
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America’s cultural diversity will be the focus of this course. Students will examine and analyze the differences and similarities of socially transmitted behavior, patterns, arts, beliefs and customs of various groups of people. The immigration process of America and the theories of class and society will be studied. This course will take an in depth analysis of the African American, Asian American, Latino American, and Native American Societies. The interaction of these societies with American cultures in the past as well as the present will be explored.

### **Technology Education Course Sequence Summary**

#### **Career Pathways:**

Video Production, Engineering, Architectural, Graphic Design, Manufacturing/Construction,  
Science and Technology and STEM

#### **Video/Film Production Careers**

Level I- Video Production I (9-12<sup>th</sup>)  
 Level II- Video Production II (10<sup>th</sup>-12<sup>th</sup>)  
 Level III- Video Production III (10-12<sup>th</sup>)  
 WSLC- Video Prod. Ind. Study (11<sup>th</sup> -12<sup>th</sup>)

#### **Engineering/Architectural Career**

Design Engineering (9-12<sup>th</sup>)  
 CADD I (9<sup>th</sup> – 12<sup>th</sup>)  
 CADD II (10<sup>th</sup> – 12<sup>th</sup>)  
 Architectural Design (9<sup>th</sup> – 12<sup>th</sup>)  
 Architectural Design II (10<sup>th</sup> – 12<sup>th</sup>)  
 Robotics (10<sup>th</sup> – 12<sup>th</sup>)

#### **Mechanical Trade Career**

### **Manufacturing/Construction**

Manufacturing Systems (9<sup>th</sup>-12<sup>th</sup>)  
Wood Systems (10<sup>th</sup>-12<sup>th</sup>)  
Metal Systems (10<sup>th</sup>-12<sup>th</sup>)  
12<sup>th</sup>)  
Advanced Material Processing (10<sup>th</sup> – 12<sup>th</sup>)

### **Graphic Design Career**

Graphic Communication (9-10<sup>th</sup>)  
Graphic Comm. Technology (10<sup>th</sup>-12<sup>th</sup>)  
Advanced Graphic Communications (10-  
12<sup>th</sup>)  
Digital Color Photography (10-12<sup>th</sup>)  
Graphic Design (10<sup>th</sup> -12<sup>th</sup>)

### **Product Design**

Design Engineering (9-12<sup>th</sup>)  
CADD I (9<sup>th</sup>-12<sup>th</sup>)  
CADD II (10<sup>th</sup>-12<sup>th</sup>)  
Robotics (10<sup>th</sup> – 12<sup>th</sup>)

## **Technology Education**

<b><u>Code</u></b>	<b><u>Course</u></b>	<b><u>Credit</u></b>	<b><u>Grade(s)</u></b>
0801	Design Engineering	1.00	9-12

The design engineering course is designed for students to apply their knowledge in a multiple of subjects to solve problems and challenges. The course will cover a wide variety of content and topics from the technology education discipline such as, but not limited to, electronic engineering, energy and power engineering, product design engineering, applied technology, bioengineering along with other field of engineering. Students will learn new content along with methods of how

to use the new content, connected to their prior knowledge and research method to formulate new, creative and innovation solutions to real life problems and issues. Emphasis will be placed on the design and research aspect of problem solving.

0802	CADD I (Computer Aided Drafting and Design)	1.00	9-12
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This course will provide students with the use of CADD software applications used in engineering, manufacturing, and design. Students will use CADD software to design and produce accurate, orthographic drawings, three dimensional models, and assemblies. Students will learn the operations needed to design products using computer software. Students will also be exposed to 3-D printing, where they will 3-D print products that they design.  
Prerequisite: None.

0804	Graphic Communications	1.00	9-12
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Graphic design is everywhere. From internet advertisements, posters, billboards along the road, store signs, custom air brushed cars or motorcycles, t-shirt printing and every package a product is placed in for purchase at a store. Graphic designers, designed, prepared layouts, created prototypes and produced these products. This course will provide students with an opportunity to apply a variety of printing processes used within the Graphic Design and Graphic Arts Industry. Activities include project design, screen-printing, image and design preparation on various software programs using computers, photography, and current printing techniques. Students will design, layout and produce personal and commercial products

0805	Manufacturing Systems	1.00	9-12
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This course is an introduction to materials processing. Course of study includes project planning and implementation. Students will demonstrate safe lab practices and work through wood and metal processing techniques and processes. This course is recommended for students interested in taking wood or metal systems in the following years.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0835	Video Production I	1.00	9-12

This course will provide an overview of video production and digital film technology. Students will demonstrate storyboard creation, broadcast camera techniques, digital computer editing, audio editing and various other video production applications. Activities include the production



<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0809	CADD II	1.00	10-12

This course will provide students with a more in-depth use of various software applications to create, replicate, and test designs. Students will create 3D models, orthographic, section view, auxiliary view, working, and production drawings. Using the CADD software, students will create assemblies to produce a virtual working model. Students will use problem-solving methods to design various solutions to problems. This course is designed to explore various aspects of engineering, manufacturing, and design. Students will also be exposed to 3-D printing, where they will 3-D print a product that they design.

Prerequisite: CADD I

0838	Metal Systems	1.00	10-12
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In this course, students will work in the materials processing lab. The focus of study is the processing metals. Course of study includes project planning and implementation. Students will demonstrate safe lab practices and work through metal processing techniques and processes. Processes for project options include sheet metal fabrication, forging, welding, machining, casting, and more.

0839	Wood Systems	1.00	10-12
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In this course, students will work in the materials processing lab. The focus of study is the processing woods. Course of study includes project planning and implementation. Students will demonstrate safe lab practices and work through wood processing techniques and processes. Students will work on designing, planning, and fabricating individual wood projects.

91447	Advanced Materials Processing	1.00	11-12
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This course is designed to be a culmination for students that successfully completed previous classes in the materials processing lab. Students will expand upon their prior experiences to explore more advanced materials processing. Processes for project options include wood processing, wood joinery, wood finishing, sheet metal fabrication, forging, welding, machining, casting, CNC processing, and more.

Prerequisite: Wood Systems or Metal Systems

####	Architectural Design II	1.00	10-12
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This course will provide students with a broad understanding of commercial architecture. Students will design various commercial architectural designs using architectural-based software applications. The focus of this course will be on commercial and public architectural trends,

construction, requirements, codes, and materials. Using the software, students will design floor plans, electrical plans, site plans, elevations, and 3D views of their designs.  
Prerequisite: Architectural Design I

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
91265	Robotics	1.00	10-12

Robotics and automation is the technological backbone that is driving innovation in our industrial economy. This challenging robotics course is designed to introduce students to advanced robotics and coding techniques and concepts. Students will learn to design, create and code various robots pertaining to movement, gathering, sorting and sensory in full or partial autonomous modes. Students will be using the coding language C++. Students will develop and apply computational thinking skills to solve real-world challenge scenarios. Students will be using VEX robots and other current robotic training material.

## Wellness and Fitness

<u>Code</u>	<u>Course</u> <u>Grade(s)</u>	<u>Credit</u>	
0538	Wellness	0.50	9

The wellness curriculum focuses on general health information, personal wellness and decision making skills that will contribute to a healthy lifestyle. This semester course contains curriculum content from the following topics: health risk factors, personality, stress and stress management, mental health, nutrition, social health including families and violence, tobacco, alcohol and drug education, reproduction and sexual responsibility and consequences. Successful completion of this course is required to fulfill graduation requirements. This course will be presented in an online format.

0537	Fitness 9	0.50	9
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The 9<sup>th</sup> grade class is designed to offer the students an “array of both lifetime and team oriented activities”. This course is also designed to teach the fitness concepts that students can carry with them throughout adulthood to help assess their fitness levels. The course is supplemented with outside reading assignments on health and fitness related topics to help students understand the correlation of both exercising and nutrition in relationship to one’s overall health and wellbeing. The goal is to provide students with the skills, knowledge and confidence needed to live a healthy and physical lifestyle.

0576	Fitness Activities	0.50	10-12
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This course is designed to enable students to participate in highly competitive team activities as a



of improving, or maintaining physical fitness. Some examples of activities that may be done in class include: lacrosse, swat ball, team handball, ultimate football, volleyball, floor hockey, prison ball, and basketball. Students should expect a challenging cardiovascular workout every day.

0517	Exercise and Fitness for Life	0.50	10-12
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This course is designed to enable students to identify activities which could be continued or pursued after their high school years as a means of maintaining physical fitness and managing stress. This course includes classroom instruction and participation in activities such as aerobics, power walking, jogging, Pilates, Zumba, golf, weight training, volleyball, and badminton, and tennis. The focus in this course is lifetime fitness.

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0526	Strength & Conditioning	0.50	10-12

This course is designed for students to learn different vigorous training techniques that would lead to a higher level of physical fitness. This course includes training that will challenge you mentally and physically using free weights, machines, and other equipment available to the weight room. During the second half of the course you will research, create, and implement a workout plan to achieve a personally derived goal that you have a desire to complete. Topics that will be covered during the course include isometric, plyometric, concentric, eccentric, weight loss, weight gain, flexibility, and goal setting.

0560	Performance Training for Athletes - Female	1.00	10-11
0562	Performance Training for Athletes - Male		

This course is designed to familiarize the student with an effective approach to athletic conditioning and strength training, and will equip students with the knowledge to develop, track, and maintain a training plan as it relates to athletic movement and performance. In doing so, students will learn the basic principles of strength training and conditioning for athletic performance and personal fitness to implement a weight-training program that works towards achieving personal athletic and fitness goals. The course instruction will include lessons on various training philosophies, movements and techniques. Topics that may be explored include systematic

strength training, plyometric (explosive movement) training, speed and agility training, physiology of exercise, and other training methods. Students will also be provided with the opportunity to apply the knowledge and skills acquired through the course activities via a training program. Students will be assessed through written activities and tests as well as measurements of fitness, strength, & conditioning, as a means of evaluating progress.

**Requirements: in the year you are taking the course, you must be participating in a Solanco sport.**

0541	First Aid and CPR	0.50	10 - 12
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This course will provide the necessary training to become certified in: adult/child/infant CPR, adult AED, and basic first aid. Classes will cover basic anatomy and physiology of the cardiovascular and respiratory systems as they relate to breathing and cardiac emergencies. At the end of the course students who successfully complete the skill and quizzes required will be certified for two years in CPR and AED, and three years for First Aid. Students will also explore health related careers and learn the training required for those careers. An excellent class for any students planning to go to CTC for any health related courses, or plan a career in the health field.

**World Language  
Career Pathways: Arts and Communication**

<u>Code</u>	<u>Course</u>	<u>Credit</u>	<u>Grade(s)</u>
0201	French I	1.00	9-11

French I is a study of francophone communication, cultures, connections, comparisons, and communities that will target all four language skills: listening, speaking, reading, and writing. Emphasis is placed on using the present tense, asking and answering questions, and creating a linguistic base for further language studies. The course is conducted primarily in French and the students are expected to communicate in French while in the classroom. No prerequisites.

0203	Spanish I	1.00	9-11
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This first-level course places emphasis on the student’s acquisition of vocabulary, sentence structure with everyday situations, and an overall appreciation of the culture of the target language. Therefore, the course is conducted primarily in Spanish and the students are expected to communicate in Spanish in the classroom. The course will also offer and demonstrate comparisons of both the English and Spanish languages and cultures. Spanish I is designed to foster both confidence and capability in speaking Spanish on a rudimentary level and serve as a basis for more detailed instruction and expansion at the second-year level.

0204	French II	1.00	10-12
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French II is a study of francophone communication, cultures, connections, comparisons, and communities that will target all four language skills: listening, speaking, reading, and writing. Emphasis

will be placed on learning to narrate with the past tenses and using irregular verbs. The course is conducted primarily in French and the students are expected to communicate in French while in the classroom. It is recommended that students have earned a C or higher in French level 1.

0206	Spanish II	1.00	10-12
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Recognizing the theory that the second year in a four-year sequence of language is the most developmental and difficult, the foreign language department endeavors:

- to capsulize the body of knowledge acquired in the first year;
- to introduce and require a working knowledge of all tenses: present, past, future, conditional and commands
- to elicit from the student more active participation in class, not only in the realm of question/answer/prepared statements, but also in the area of critical listening/presentation and defense of opinions.
- the course is conducted in Spanish and the students are expected to communicate in Spanish in the classroom

**Prerequisite: Spanish I. It is recommended that a minimum grade of “C” be attained in Spanish I in order to be successful in Spanish II.**

Code	Course	Credit	Grade(s)
0207	French III – Part A	0.50	11-12

French III - Part A is a combined course with French IV that runs with a year A/B model. It is a study of francophone communication, cultures, connections, comparisons, and communities that will target all four language skills: listening, speaking, reading, and writing. Emphasis will be placed on expanding the use of the present and past tenses in communication and learning to communicate with the subjunctive, future and conditional. Students will work to expand their



French IV - Part B is a continuation of knowledge and skills emphasized in Part A. Prerequisite “C” or better in French IV – Part A.

0223	AP Spanish Language and Culture AP Spanish Literature and Culture	1.0	12
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AP Spanish is comparable to an advanced level college Spanish language and literature course. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition. The course is designed to:

- Help you understand formal and informal Spanish spoken and written by native speakers from a variety of regions,
- Further develop an active vocabulary sufficient for reading authentic materials in Spanish without depending on a dictionary, and
- Express yourself with reasonable fluency by describing, narrating, inquiring, and developing arguments in Spanish, both orally and in writing, using different strategies for different audiences and communicative contexts.

In this course, special emphasis is placed on the use of authentic source materials and the integration of language skills. Therefore, you will listen, read, write, and speak in order to demonstrate understanding of authentic Spanish-language source materials. Students enrolled in this course will be completing both the AP Spanish Language and Culture exam, as well as the AP Spanish Literature and Culture exam, in May.

#####	Italian I	1.00	9-12
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Italian I is an introduction to the Italian language and the cultures of the Italian-speaking world (Italy, San Marino, Switzerland, and the Vatican). Students will be introduced to the Italian alphabet, days of the week, months of the year, seasons of the year, colors, and a wide range of novice-level listening, speaking, reading, and writing activities. The approach to language learning and language acquisition in Italian I will be rooted in the communicative language learning method (e.g., using Italian for real-world purposes which are relevant to students’ daily lives). Students will be able to use Italian to negotiate the following: introduce oneself, exchange basic greetings, talk about one’s likes and dislikes, use the present tense to talk about one’s family and friends, use the present tense to talk about school, discuss favorite pastimes, and learn how to tell time. Finally, this course will encompass a variety of enrichment activities such as music, film, art, projects, and seasonal celebrations of the Italophone world.

#####	Italian II	1.00	10-12
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Italian 2 is a continuation of the communicative language skills taught in Italian 1. Students will acquire novice-mid language skills such as learning how to speak about past events, learning how to talk about habitual actions in the past, learning how to make plans in the near future, learning how to ask for and give directions, and learning how to shop and negotiate prices. A special emphasis on Italian immigration history in the United States will be introduced in this course in a two-part series (Series 1 in the fall semester and Series 2 in the spring semester). Students will also enjoy a variety of enrichment activities and projects through art, music, and film.

PREREQUISITE: Italian 1