

State College Area High School Course Selection Guide 2024-2025



**DISTRICT MISSION:
To Prepare Students for Lifelong Success
Through Excellence in Education**



STATE COLLEGE AREA
SCHOOL DISTRICT

STATE COLLEGE AREA HIGH SCHOOL
650 Westerly Parkway - State College, Pennsylvania - 16801-4299
Telephone 814-231-1111 - Fax: 814-231-5024

Dear Students/Families/Guardians:

In high schools, we are charged with preparing students for an ever-changing future. After graduation, many students will pursue jobs and careers that have not yet been created. It is imperative to equip students with the necessary skills to be successful at the next level; whether it is college, vocational training, or work.

This process of equipping students for the next steps starts with our annual course registration process. Our registration catalog serves as a guide for the many academic programs and courses offered at State College Area High School. It contains course descriptions, specific information about graduation requirements, and other general information pertaining to graduation. I hope that this catalog proves to be helpful in answering registration questions.

Program planning is truly a team effort that involves parents, students and staff. The academic program at State College Area High School is extensive and offers a wide range of opportunities. The personal contacts made with faculty members and academic advisors will prove beneficial in the decision making process and assisting students in becoming college and career ready. Careful planning is a necessary tool that will continue to serve students in their future years at State College Area High School and beyond.

Making excellent academic decisions during a student's time at State College Area High School will allow for purposeful future planning. We want students to experience a fulfilling high school career. For planning resources available, please visit with your assigned school counselor.

Best wishes for a continued successful school career.

Sincerely,

Laura Tobias
Principal

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**Changes sometime occur after printing. For the most up to date course guide information please visit: <http://www.scasd.org/Page/16701>

Where to Get More Information

<p>Mount Nittany Middle School – 656 Brandywine Dr. Principal – Brian Ishler Counselors – Kelsey Barbrow, Alison Turley and Michael Willis</p>	<p>814-272-4270 814-272-5944</p>	<p>Park Forest Middle School – 2180 School Dr. Principal – Karen Wisner Counselors – Jaclyn Gum, Craig Herzing and Suzanne Thompson</p>	<p>814-237-5301 814-237-5304</p>
<p>State College Area High School – 650 Westerly Pkwy High School Principal – Laura Tobias Supervisor of Curriculum K-12 – Christine Merritt Counseling Office Counselors: Coordinator and ELL (A-Z) Grade 9 (9LC): Grades 10-12:</p>	<p>814-231-1011 814-231-1082 814-231-1130</p>	<p>Beth Burnham Linda Brown (A-L) Maddie Titus (A-C) Hannah Catalano (Lf-O)</p>	<p>Jessica Zorger (M-Z) Tanya Anderson (Cm-G) Dave Eckberg (P-Sh) Shawn Barbrow (H-Le) Katelynn Camerer (Si-Z)</p>
<p>Career and Technical Center – 650 Westerly Pkwy Director – Ben Mordan</p>	<p>814-231-4153</p>		
<p>Delta Program – 653 Westerly Pkwy Director – Jon Downs Counselor – Andrea Larson</p>	<p>814-231-1000</p>		

How to Use the Course Selection Guide

The information included in this guide is intended to help you select courses. Your choices should be made carefully. It is important that parents and guardians are involved in this process of choosing your educational program, as well as counselors, teachers, and administrators should be seen as valuable resources as well. Read the guide carefully; make your choices wisely. Our aim is to provide each of you with the specific program that will best meet your needs now and for the future.

Refer to the course selection calendar to ensure that you are able to meet all deadlines. Review the Graduation Requirements for students in your graduating class. Ninth grade students have required coursework that is explained on page 8. We recommend that you use the Graduation Planning Guide to fill in courses that have been taken and courses that you would like to take in subsequent school years. Use the content sequencing maps in each program section to assist you in completing the table. Be sure to check for course prerequisites and read the course descriptions before making your selection.

Each program section contains three parts: a general description of the overall program, a table with course sequences, and an alphabetical list of courses with the course numbers. Each course number begins with a letter code to indicate the following: Y or S = Yearlong - Semester, I = IB Course, H = Hybrid, B = Before School, V = Virtual. Following the course number, the credits offered (Cr), and the course description are listed. The suggested grade level of the course is indicated, as are the prerequisites. *Students who have not met the course prerequisites but have evidence of other comparable preparation for the course should meet with their counselor for approval before making the selection.* Throughout the section, icons are used indicate Career Technical Center course (CTC), National Collegiate Athletic Association (NCAA) eligible courses, Keystone courses, weighted grade course, and alternating year courses.

****Changes sometime occur after printing. For the most up to date course guide information please visit: <http://www.scasd.org/Page/16701>**

Course Selection Dates for 2024-2025

2024

January 8 – 22

Teachers share course recommendations with students, and share information about courses within their respective departments.

January 31

Students may view their course recommendations through the StudentVUE/ParentVUE. Parents/guardians may contact teachers with questions regarding course recommendations. (E-mail addresses are available on the district website.)

January 31 – February 12

Students complete course requests. This may be done through the StudentVUE/ParentVUE.

February 12

Deadline for Charter/Private/Homeschooled to submit course requests to Registrar's Office.

Early June

Schedules will be accessible on StudentVUE/ParentVUE to parents/guardians with instructions for schedule changes. This is the **only** opportunity to request schedule changes.

Final schedule change requests submitted. Students may request changes for **limited reasons** listed on the Schedule Change Form.

Once School Starts

Schedule changes **will be considered** for the following reasons: under credits, over credit, graduation requirements, or level change.

Schedule Change Deadlines for 2024-2025

- You can only add a class within the first ten days of school.
- Students may not drop a course in order to add another credit-bearing course.
- Guidelines for dropping courses:
 - Year-long course: Drop within the first 45 days.
 - Semester long course: Drop within the first 23 days.
 - Quarter-long course: Drop within the first 12 days.
- After these deadlines, a "W" will appear on the transcript.
- Minimum credit requirements for each grade level must be maintained
 - 6.5 credits for grades 9, 10, & 11
 - 6.0 credits for grade 12
- Summer Flex courses you choose to enroll in will not be counted toward the minimum number of requirements required during the school year.
- Please note that student schedules are subject to change at any time due to staffing and program changes.

Graduation Requirements

SUBJECT	CREDITS REQUIRED	EXPLANATION	SAMPLE PLAN				TOTAL
			Gr. 9	Gr. 10	Gr. 11	Gr. 12	
English	4.00	Students earn 4.00 SCASD approved English credits. See page 8 for Keystone Exam graduation requirements.	1.00	1.00	1.00	1.00	4.00
Social Studies	4.00	Students earn 4.00 SCASD approved Social Studies credits.	1.00	1.00	1.00	1.00	4.00
Science	3.00	Students earn 3.00 SCASD approved Science credits. See page 8 for Keystone Exam graduation requirements.	1.00	1.00	1.00	1.00 Optional	3.00 - 4.00
Mathematics	3.00	Students earn 3.00 SCASD approved Mathematics credits. See page 8 for Keystone Exam graduation requirements.	1.00	1.00	1.00	1.00 Optional	3.00 - 4.00
Physical Education	1.50	Students earn 1.50 SCASD approved Physical Education credits.	0.50	0.50	0.50		1.50
Health Education	1.00	Students earn 1.00 SCASD approved Health credit.	0-.50	0-.50	0-.50	0-.50	1.00
Driver Education	0.25	Students earn .25 SCASD approved Driver Safety Education credit.		0.25			0.25
Electives	8.25	Students earn a total of 8.25 SCASD approved elective credits.	2.00 - 3.00	2.00- 3.00	2.00 - 3.00	2.00 - 3.00	8.25-12.00
Total Credits Required	25.00	Grades 9 - 12 Cumulative academic plan	5.50	10.50	17.00	25.00	25.00 +

Entry Level Academic Eligibility for Participation in Pennsylvania High School Sports (PIAA) and National Collegiate Sports (NCAA and NAIA)

Pennsylvania Interscholastic Athletic Association (PIAA) Eligibility Requirements - www.piaa.org

To be eligible for interscholastic athletic competition a student must pass at least 4 full credit subjects, or the equivalent, during the previous grading period

National Collegiate Athletic Association (NCAA) Eligibility Requirements - www.ncaa.org - For current information please visit their website at <http://www.ncaa.org/student-athletes/future/eligibility-center>

National Association of Intercollegiate Athletics (NAIA) Academic Eligibility Requirements For current information please visit their website at www.naia.org

Ninth-Grade Student Scheduling

All ninth grade students must register for a minimum 6.5 credits and a maximum of 8 credits. Lunch and study halls are not considered as credit earning class periods. All ninth grade students will have the following:

English – 1 credit, **Social Studies** – 1 credit, **Science** – 1 credit, **Math** – 1 credit, **Physical Education** – 0.5 credits, **Health Education** – 0.5 credits.

- English classes are 1 credit. The English options for ninth grade students are:
Y206 ENGLISH 9 or Y207 ADVANCED ENGLISH 9
- Social Studies are 1 credit. The social studies options for ninth grade students are:
Y583 HUMAN GEOGRAPHY or Y582 AP HUMAN GEOGRAPHY
- Science classes are 1 credit. The science options for ninth grade students are:
Y465 EARTH SYSTEMS SCIENCE 1 or Y473 ADVANCED EARTH SYSTEMS SCIENCE 1
- Math classes are 1 credit. The mathematics options for ninth grade students are:
Y388 CP ALGEBRA 1A & B (2 credits, counts for one unit for NCAA core course requirements) or Y379 CP ALGEBRA 1
Y382 CP GEOMETRY (the prerequisite for this course is CP Algebra 1 and the recommendation of the CP Algebra 1 teacher)
Y383 GEOMETRY (the prerequisite for this course is Algebra 1 and the recommendation of the Algebra 1 teacher)
Y374 ADVANCED GEOMETRY (the prerequisite for this course is Advanced Algebra 1 and the recommendation of the eighth grade teacher)
Y375 ADVANCED ALGEBRA 2 (the prerequisite for this course is Advanced Geometry and the recommendation of the eighth grade teacher)
- The Physical Education course are:
S532 PHYS ED or V532 Virtual PHYS ED
- The Health course are:
S537 WELLNESS 9 or V537 Virtual WELLNESS

Community Service

In the State College Area School District students are *recommended to complete* **community service**. Although it is not a graduation requirement, in our school and community, we value and encourage service to others, so it is very possible that you have been involved in doing community service for years. Community service is also a valuable component for postsecondary planning purposes i.e. college applications, workforce opportunities, and study abroad. Therefore, we will include community service hours on all students' transcripts.

Keystone Exams/ACT 158 Pathways

Pennsylvania has required that all schools administer assessments called the Keystone Exams in the areas of Biology, Algebra 1, and Literature. These exams are end-of-course exams designed to assess proficiency in those specific subject areas.

Students can meet the statewide graduation requirement by:

- Scoring proficient or advanced on each Keystone Exam - Algebra 1, Literature, and Biology
- Earning a satisfactory composite score on the Algebra 1, Literature, and Biology Keystone Exams. All scores must be a Basic level or above, and one must be proficient. The passing composite score for three exams is a sum of 4,452.
- Earning a satisfactory composite score on the Algebra 1, Literature, and Biology Keystone Exams. The passing composite score is 2,939 for two exams with one proficient and one basic score, and one Non-Score Proficient Exam awarded during the 2019-2020 school year.
- Earning a passing grade on the courses associated with each Keystone Exam and satisfactorily completing one of the following: an alternative assessment (SAT, PSAT, ACT, ASVAB, Gold Level ACT WorkKeys), advanced coursework (AP, IB, concurrent enrollment courses), pre-apprenticeship, or acceptance in a 4-year nonprofit institution of higher education for college-level coursework.
- Earning a passing grade on the courses associated with each Keystone Exam and passing or having the likelihood of passing an Industry-based competency certification in an approved Career and Technical Education concentration or having the readiness for continued engagement in a CTE Concentrator program of study.
- Earning a passing grade on the courses associated with each Keystone Exam and demonstrating readiness for postsecondary engagement through three pieces of evidence from the student's career portfolio aligned to student goals and career plan. Examples of evidence will include but are not limited to ACT WorkKeys, SAT Subject tests, AP, IB, concurrent coursework, higher education acceptance, community learning projects, and completion of an internship, externship, or co-op or full-time employment.

Please see [Act 158 Pathways.pdf](#) for more information.



Keystone Exam courses are identified in the Course Selection Guide with a keystone.

Graduation Planning Guide

Subject Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Total Credits Earned	Total Credits Required
English						4.00
Social Studies						4.00
Science						3.00
Mathematics						3.00
Physical Education						1.50
Health Education						1.00
Driver Safety Education						.25
Electives **May be fulfilled by additional credits earned in any subject area						8.25
Total Credits Earned						25.00

Course Offerings

In person Learning (S, Y or I) - traditional face-to-face course, can be 9-week, semester or year long

International Baccalaureate Programme (I) - please note that some courses require a two-year course sequence

Virtual (V) - 100% online via Google Classroom or via an outside vendor

Before School Courses (B) - meet face to face before the start of the regular bell schedule from 7:45 am - 8:30am. Students have 10 minutes to transition to their first block.

Art & Design Program

The art program is for students who wish to: enjoy the creative growth that comes from working in art, continue to develop their skill in an art-related area, prepare for a career in the creative industry, and learn about art media and personal aesthetics.

In all art courses offered, student achievement is measured through observed growth in the processes of developing craft, persisting, envisioning, expressing, observing, reflecting, exploring, and understanding the art world.

Theme	9 th Grade	10 th Grade	11 th Grade	12 th Grade
2-D Arts	Intro to Studio Art Mindfulness Practices in Art Drawing 1 Drawing 2* Painting* Printmaking*	Intro to Studio Art Mindfulness Practices in Art Drawing 1 Drawing 2 Painting Printmaking	Intro to Studio Art Mindfulness Practices in Art Drawing 1 Drawing 2 Painting Printmaking IB Visual Art Y1 Master Studio	Intro to Studio Art Mindfulness Practices in Art Drawing 1 Drawing 2 Master Studio Painting Printmaking IB Visual Art Y2 AP Studio Art
3-D Arts	Intro to Studio Art Ceramics 1 Ceramics 2* Jewelry Sculpture/3D Art	Intro to Studio Art Ceramics 1 Ceramics 2 Jewelry Sculpture/3D Art	Intro to Studio Art Ceramics 1 Ceramics 2 Jewelry Sculpture/3D Art	Intro to Studio Art Ceramics 1 Ceramics 2 Jewelry Sculpture/3D Art
Media Arts	Intro to Studio Art Animation Cinema Arts Commercial Design Photography	Intro to Studio Art Animation Cinema Arts Commercial Design Photography Adv Photography	Intro to Studio Art Animation Cinema Arts Commercial Design Photography Adv Photography IB Film Y1	Intro to Studio Art Animation Cinema Arts Commercial Design Photography Adv Photography IB Film Y2
Art History	Intro to Studio Art AP Art History	Intro to Studio Art AP Art History	Intro to Studio Art AP Art History	Intro to Studio Art AP Art History

*Prerequisite would need to be completed prior to the course.

Art

Adv Photography

Course	Credits	Suggested Grade Level
Y169	1	10-12

Prerequisites: The successful completion of Photography.

This course is designed for students who wish to pursue the art form of photography well beyond the basics. Typical projects include photographic responses to open ended prompts, technical experimentation with shooting and editing processes, exploration of presentation methods, and class critique of completed works.

Animation

Course	Credits	Suggested Grade Level
S172	.5	9-12

Prerequisites:

This course offers students introductory units in frame-by-frame animation (Adobe Photoshop and Premiere), 2D animation (Adobe Animate) and 3D animation (Blender). Artistic design and principles of animation are incorporated throughout each unit.

AP Art Hist

Course	Credits	Suggested Grade Level
Y150	1	10-12

Prerequisites:

AP Art History is a survey course of art forms throughout history and all parts of the world. Students will study Art History through class discussions, readings, slide viewing, videos, research and lecture. This course has no prerequisites, however, students must expect to be academically challenged. For success in Art History, students should be maintaining a "B" average or higher in English and Social Studies. An understanding of historical events that influenced the ideas, styles and techniques of artists as well as an ability to express this understanding in short answer and essay form is essential for a student to do well in the course and the AP exam. Evaluation will be based on quizzes, tests, and class participation and projects.

Students will be expected to complete all readings on time, take lecture notes, participate in class discussions and analyses, develop and refine essay writing skills, give class presentations and answer both objective and essay test questions.

AP Studio Art

Course	Credits	Suggested Grade Level
Y162	1	12

Prerequisites: Two credits of Fine Art electives

This course is designed for highly motivated artists who can work within the expectations of a first-year college level studio art class. Students will create a portfolio of work that may be submitted to the Advanced Placement Studio Art Program of the College Board. Students will develop a high level of skill in the use of the elements and principles of art and design as well as postmodern principles. Students will develop both a sustained investigation on a particular theme and will investigate and explore artists, approaches and media to broaden their repertoire of visual experiences. Students will maintain a visual arts journal.

Ceramics 1

Course	Credits	Suggested Grade Level
S166	.5	9-12

Prerequisites:

This course is intended for students who are interested in pursuing the mastery of skills involved in the production of wheel thrown and hand built clay objects. Examination of the aesthetics of ceramic works of art and the process of production provides the students with a framework for making critical judgments of clay objects, both as creators and consumers. Students' ceramic artwork will exhibit quality construction and finished decoration.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Art

Ceramics 2

Course	Credits
S170	.5

Suggested Grade Level 10-12

Prerequisites: Successful completion of Ceramics 1

This course is designed for students who are interested in pursuing the mastery of advanced level skills involved in the production of wheel thrown and hand built clay objects. Studio practices are emphasized to encourage the independent design of a body of work.

Cinema Arts

Course	Credits
S158	.5

Suggested Grade Level 9-12

Prerequisites:

This course is open to all students and provides them the opportunity to develop value judgments as filmmakers and film consumers through the exploration of basic film productions. Students produce short movies, conduct research on cinema related topics, and they are also expected to give informed critiques of films.

Comm Design

Course	Credits
S157	.5

Suggested Grade Level 9-12

Prerequisites:

This course is designed to provide all students with a foundation in art skills, as well as consumer understanding of art. Students will study various lettering styles, visual presentation techniques, and the work of various professional designers in order to develop original trademarks and logos. A study of the principles of design and the creative studio thinking process will be combined with the use of a variety of materials and software programs to explore the use of art in commercial settings.

Drawing 1

Course	Credits
S152	.5

Suggested Grade Level 9-12

Prerequisites:

This course is open to all students. Students will gain the technical skills needed for the production of high quality drawings. Students will deepen their understanding of techniques through the use of various materials and tools. Students will explore and discuss various artists and their artwork to help better understand these concepts and techniques. This course satisfies the prerequisite requirement for the following: Drawing 2, Painting, and Printmaking.

Drawing 2

Course	Credits
S153	.5

Suggested Grade Level 9-12

Prerequisites: Successful completion of Drawing 1

This course is open to all students who have completed the Drawing 1 course and who wish to continue to refine their skills by gaining a working knowledge of the technology and techniques employed by drawing masters. Examples of masters' drawings are used for this purpose throughout the course. Students will use a variety of media as they experience a concentrated study of different artistic styles.

Art

IB Film Y1

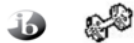


Course	Credits
I915	1

Suggested Grade Level 11
Prerequisites:

The IB Film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical, and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others. IB Film students will work collaboratively to experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium. It focuses on the international and intercultural dynamic that triggers and sustains contemporary film, while fostering in students an appreciation of the development of film across time, space and culture. IB Film students are challenged to acquire and develop critical thinking, reflective analysis, and the imaginative synthesis that is achieved through practical engagement in the art, craft, and study of film.

IB Film Y2



Course	Credits
I970	1

Suggested Grade Level 12
Prerequisites: IB Film Y1

The IB Film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical, and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others. IB Film students will work collaboratively to experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium. It focuses on the international and intercultural dynamic that triggers and sustains contemporary film, while fostering in students an appreciation of the development of film across time, space and culture. IB Film students are challenged to acquire and develop critical thinking, reflective analysis, and the imaginative synthesis that is achieved through practical engagement in the art, craft, and study of film.

IB Visual Arts Y1



Course	Credits
I916	1

Suggested Grade Level 11-12
Prerequisites:

The Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.

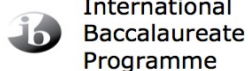
IB Visual Arts Y2



Course	Credits
I917	1

Suggested Grade Level 12
Prerequisites: I916 IB Visual Arts Y1

The Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Art

Intro to Art History

Course	Credits	Suggested Grade Level
S174	.5	9-12

Prerequisites:

This is a semester-long course that explores the role of visual arts from its earliest forms in human history through the rapidly-evolving visual culture of modern society. Important works, artists, and movements in art will be introduced and students will self-select topics from historical and contemporary art to research and understand. This course is not a prerequisite for AP Art History.

Intro to Studio Art

Course	Credits	Suggested Grade Level
S173	.5	9-12

Prerequisites:

This course builds upon the concepts and skills that were studied in 8th grade art. The curriculum will incorporate the elements of art and principles of design across a variety of mediums in 2D, 3D, and media arts with an emphasis on design oriented thought dispositions. Assessments will include process portfolios and projects.

Jewelry

Course	Credits	Suggested Grade Level
S164	.5	9-12

Prerequisites:

This course provides a sampling of a variety of materials, tools, and techniques used in the jewelry making process. We will focus on the process while exploring the history and evolution of jewelry. Units of study will include hemp knotting, beadmaking, felting, metalwork and wire, fused glass, as well as alternative materials used for wearable art.

Master Studio

Course	Credits	Suggested Grade Level
Y161	1	11-12

Prerequisites: One credit of Art and Design electives

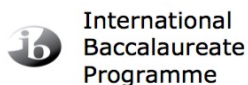
This course is open to interested, industrious and capable art students. Students are presented a wide selection of media and explore these in a studio atmosphere as they complete a portfolio and maintain a visual art journal. Students will explore a variety of art mediums and movements, including a unit on oil painting. Art history is taught throughout the course with a focus on art themes. Students must have completed one (1) credit of Art and Design electives for placement in the course.

Mindfulness Practices in Art

Course	Credits	Suggested Grade Level
S175	.5	9-12

Prerequisites:

This course is intended to provide students with tools that promote mental health from engaging in the process of making art. Students will work with a variety of art practices including but not limited to drawing, painting, collage, etc. No previous art experience is necessary.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Art

Painting

Course	Credits
S156	.5

Suggested Grade Level 9-12

Prerequisites:

This course is intended for students who have mastered basic skills required for drawing and who wish to gain a working knowledge of the terminology, skills and techniques employed in various painting media. Students will explore concepts of composition and color theory. Examples of masters' paintings are introduced which provide models of techniques students are employing in personal work. Both transparent and opaque media are used in the study of techniques. Students are required to maintain a visual art journal.

Photography

Course	Credits
S168	.5

Suggested Grade Level 9-12

Prerequisites:

This course is designed as an elective for all students. Personal cameras are not required for this course in which the students will explore photographic theory, process, and the history of photography. Students will explore the basic components of Digital photography: The camera functions and settings, image downloading and saving for a variety of formats, and image manipulation using Adobe Photoshop. Photographic composition skills are stressed and the principles of design involved in making photographic images are emphasized while the students learn to use a digital SLR camera and Adobe Photoshop. Digital photography students will also maintain a portfolio of their work including the histories of those works as evidence of their technical and aesthetic growth.

Printmaking

Course	Credits
S159	.5

Suggested Grade Level 10-12

Prerequisites: Successful completion of Drawing

This course is open to all students who have completed the Drawing course and desire to apply these skills to the exploration of printing techniques in art such as silk screening, relief printing, etching, and lithography. Students will gain a working knowledge of terminology, concepts and skills required for the production of prints in the stencil method, photo-silkscreen technique, linoleum relief, multiple color registration, plexiglass plate, zinc plate, acid etching, and offset printing. Students will produce images for posters, commercial art, T-shirt and textile designs and will be introduced to the history and commercial background of these mediums. Students will maintain a sketchbook throughout the course.

Sculpture/3D Art

Course	Credits
S165	.5

Suggested Grade Level 9-12

Prerequisites:

This course offers an exploration of the materials, processes, and the design of 3-Dimensional artwork. Students will experience a wide variety of materials through units on paper, wire, clay, multi-media, and public art. Individual and group projects are designed to teach planning and problem solving skills, an appreciation of various cultures and aesthetics as well as practical construction and sculptural skill.

Driver Safety Education, Health Education, and Physical Education Programs

Mission Statement: The State College Health and Physical Education Department will provide a supportive environment for students to learn the skills necessary to define, demonstrate and value a healthy and active lifestyle.

Driver Safety Education

Driver Safety Education is a course which teaches our students how to drive responsibly. The major objective of the course is to make it clear to the students, that driving a car involves much more than simply operating controls. Students learn how to think behind the wheel, how to plan ahead and how to anticipate the actions of other roadway users. We also teach students how to control their vehicles in order to minimize risk to themselves and others. State and national rules of driving and safety are emphasized.

Health Education

Health Education, as an applied science, provides current information on a variety of health areas of interest and concern to our students. Its components include knowledge, attitudes, and behaviors. Students learn to differentiate between healthful and harmful behaviors and to recognize the effects of decisions. The course also provides opportunities to gain new scientific information, learn and practice goal setting and to make plans to achieve and maintain optimum health.

Physical Education

Physical Education is concerned with the social, mental, emotional, and physical development of each student. Our curriculum is fitness based, where students are encouraged to actively participate in every unit of instruction. Students are evaluated by teacher observation, goal setting, positive attitude, participation, sportsmanship and various written assessments.

Program	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Driver Safety		Driver Safety Education	Driver Safety Education	Driver Safety Education
Health	Wellness 9	Wellness 9	Wellness for Life Sport Nutrition & Safety Leadership & Wellness IB Sports, Exercise & Health Sci	Wellness for Life Sport Nutrition & Safety Leadership & Wellness IB Sports, Exercise & Health Sci
Physical Education	Personal Wellness & Activity Physical Education 09	Personal Wellness & Activity Selective Physical Education Fitness & Exercise Science Lifeguarding Wake-up to Phys Ed Wake-up to Fitness Exercise Sci	Personal Wellness & Activity Selective Physical Education Fitness & Exercise Science Lifeguarding Wake-up to Phys Ed Fitness Exercise Sci IB Sports, Exercise & Health Sci	Personal Wellness & Activity Selective Physical Education Fitness & Exercise Science Lifeguarding Wake-up to Phys Ed Fitness Exercise Sci IB Sports, Exercise & Health Sci

Driver Safety Education

Driver Safety

Course	Credits
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1536	.25
2536	
3536	
4536	
V536	

Suggested Grade Level 10-12

Prerequisites:

The objective of this classroom course, which is required of all students for graduation, is to provide theoretical information in preparation for driving. Students will learn about good driver behavior, management of risk, the PA Vehicle Code, physical, social and environmental influences on the driver, as well as the safe operation of an automobile. Students participate in activities such as small and large group discussions, lectures, demonstrations, readings, group and individual projects and audiovisual presentations.

This course meets every other day for a single marking period. Students will complete over 30 hours of instructional time during the course. It is recommended that this course be taken the semester of the student's 16th birthday. Successful completion of this course is a graduation requirement. Students who wish to take this course but cannot fit it into their schedules are urged to contact the counseling office to arrange an alternative plan.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid	Y- Year-Long
S- Semester	B- Before School
V- Virtual	I- IB Programme

Health

Wellness 9

Course	Credits	Suggested Grade Level
S537 V537	.5	9 Prerequisites:

This course provides students with current information on an array of health topics of interest and concern to students. The course will emphasize intelligent decision making and the importance of taking responsibility for one's own health. Students will have the opportunity to make the connection between physical, mental, emotional and social aspects of health. Components of the course will include knowledge, attitudes, and behaviors using a variety of instructional strategies that are student-centered.

Wellness for Life

Course	Credits	Suggested Grade Level
S543 V543	.5	11-12 Prerequisites: Wellness 9 or equivalent

This course is designed to provide students with a skills-based approach to managing their stress and wellness. It offers an examination of one's stressors and how to find a balance of mental, emotional, physical and environmental stress management techniques for leading healthier and more productive lives. Course information is presented in a practical manner incorporating current health trends and concerns, life management skills and interdisciplinary learning strategies to achieving optimal wellness. An emphasis is placed on the importance of making responsible decisions that will lead to a higher quality of life.

IB Sports, Exercise & Health

Course	Credits	Suggested Grade Level
I920	1	11-12 Prerequisites: Wellness & Bio 1

Sports, exercise and health science (SEHS) is an experimental science course combining academic study with practical and investigative skills. SEHS explores the science underpinning physical performance and provides the opportunity to apply these principles. The course incorporates the disciplines of anatomy and physiology, biomechanics, psychology, and nutrition. Students cover a range of core and option topics, and carry out practical (experimental) investigations in both laboratory and field settings. The course offers a deeper understanding of the issues related to sports, exercise, and health in the 21st century and addresses the international dimension and ethics related to both the individual and global context. SEHS units include anatomy, exercise physiology, energy systems, movement analysis, skill in sports, measurement and evaluation of human performance, psychology of sport, and physical activity and health. This course earns students a .5 credit of Health and a .5 credit of PE.

Leadership & Wellness

Course	Credits	Suggested Grade Level
S547	.5	11-12 Prerequisites: Wellness 9 or equivalent

This course will address theories of leadership that when employed will empower leaders to advocate and advance a culture of wellness within their community or organization. The course is based on the belief that leaders can be developed and will emphasize skills such as goal setting, communication, and organization, along with the other health literacy skills. The structure of this class will consist of group activities, planning for school and community events, individual projects/goals, and the learning and practicing of leadership qualities/skills both as a group and as individuals.

Sport Nutrition & Safety

Course	Credits	Suggested Grade Level
S546	.5	11-12 Prerequisites: Wellness 9 or equivalent

Students will learn how Sport Nutrition can enhance and sustain performance for exercise. Topics of instruction will include development of nutritional meal plans, energy metabolism, essential nutrients, ergogenic aides (performance enhancers), fueling for various muscular strength/power and endurance activities, and weight management. A unit on safety will permit students to earn the basic life support CPR/AED, Healthcare Provider certification through the American Heart Association. Students are required to purchase a CPR pocket mask.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Physical Education

Phys Ed 09

Course	Credits	Suggested Grade Level
S532 V532	.5	9 Prerequisites:

This 9th grade course focuses on learning skills necessary to become lifelong learners in a variety of activities in the area of personal health and wellness. Units of instruction include: field sports, volleyball, tennis, golf, aquatics, archery, personal fitness and introduction to a fitness center's cardio and strength training machines and stations. Upon the successful completion of the fitness certification assessment, students will be eligible to participate in the SouthSide Fitness Center programs which are offered after school and during the summer.

Please note: There is an additional fee to obtain fitness center certification for students who take the course virtually.

Personal Wellness & Activity

Course	Credits	Suggested Grade Level
S531	.5	9-12 Prerequisites: Medical excuse from a physician.

An adapted, or modified, physical education program focused on providing the same opportunities to students with physical, cognitive, or psychological exceptionalities in the safest and least restrictive environment possible. An individualized program provides rehabilitation exercises and activities that are modified to meet the needs of the individual student. The program encourages success and exploration in physical, emotional, mental, and social health over the student's lifetime. Evaluation of student performance is based on the achievement of goals as agreed upon by the student and the learning team. This course is appropriate for students with a wide variety of exceptionalities.

Lifeguarding

Course	Credits	Suggested Grade Level
S545	.5	10-12 Prerequisites: Swimming skills test (see description below)

Interested in a great summer job or challenging career as a professional lifeguard? Through videos, group discussion and hands-on practice, students will have the opportunity to obtain certification in First Aid, CPR, AED and American Red Cross Lifeguarding. This course is a combination of classroom and water days. You must be at least 15 years of age and pass a prerequisite swim test which includes the ability to swim 300 yards continuously, tread water for 2 minutes with only the use of the legs, and surface dive to retrieve a 10 pound object off the bottom of the pool between 7-10 feet deep. This course credit will fulfill your physical education requirement for that school year or it may be used as an elective. There is a required fee for the certification and textbook. Scholarships available for need based students.

Select Phys Ed

Course	Credits	Suggested Grade Level
S530 V530 V535	.5	S530 10-12 / V530 - 10th / V535 - 11th & 12th Prerequisites: Physical Education 9 (S532 or V532) and Wellness 9 (S537 or V537)

The Selective Physical Education program provides a progressive curriculum for students in grades 10-12 to understand and experience a variety of activity choices. A fitness component is included throughout all activities for building, growing, and maintaining an active and healthy lifestyle. Students will have the opportunity to choose different activities throughout the course from the following strands:

1. LIFETIME ACTIVITIES: Activities may include yoga, dancing, mountain biking, martial arts fitness, and adventure (Activities may include wall climbing, high ropes courses, and belaying).
2. TEAM SPORTS: Activities may include lacrosse, basketball, softball, soccer, ultimate frisbee, volleyball, tchoukball, handball, and floor hockey.
3. DUAL / INDIVIDUAL SPORT: Activities may include tennis, badminton, pickle ball, archery, and fencing.
4. PERSONAL FITNESS: This strand based out of the Fitness Center. Activities include instruction various types of strength training & cardiovascular exercises, program design, and goal setting. Students can obtain their Fitness Center certification in this strand.

Physical Education

Wake Up to Phys Ed

Course	Credits	Suggested Grade Level
B541	.5	Only 10-12

Prerequisites: Phys Ed 9

Wake Up to Phys Ed is a course designed for only 10th through 12th graders interested in improving their current fitness level. This class meets every school day from 7:45 am - 8:30 am in the High School North Gymnasium. Units offered may include personal fitness, team sports, individual/dual sports, adventure, and aquatics.

*Students are responsible for their own transportation to school.

Fitness & Exercise Sci

Course	Credits	Suggested Grade Level
S540 B540	.5	11,12

Prerequisites: Wellness 9, Phys Ed 09 and Select PE

Fitness and Exercise Science will provide students with a broad knowledge of exercise science and a foundation for understanding the role of science in exercise, athletic performance, and health promotion with a major focus on strength and sports conditioning. Content areas consist of basic exercise science, program design and implementation for various populations, advanced level strength training concepts, anatomy and physiology, injury prevention, client consultation, and fitness assessments. This course is designed to provide a sound knowledge for student-athletes and students interested and preparing for professional work in health promotion, fitness-related careers, physical and occupational therapy, kinesiology, and allied health careers.

*Students are responsible for their own transportation to school for B540 (Before School)

IB Sports, Exercise & Health

Course	Credits	Suggested Grade Level
I920	1	11-12

Prerequisites: Wellness & Bio 1

Sports, exercise and health science (SEHS) is an experimental science course combining academic study with practical and investigative skills. SEHS explores the science underpinning physical performance and provides the opportunity to apply these principles. The course incorporates the disciplines of anatomy and physiology, biomechanics, psychology, and nutrition. Students cover a range of core and option topics, and carry out practical (experimental) investigations in both laboratory and field settings. The course offers a deeper understanding of the issues related to sports, exercise, and health in the 21st century and addresses the international dimension and ethics related to both the individual and global context. SEHS units include anatomy, exercise physiology, energy systems, movement analysis, skill in sports, measurement and evaluation of human performance, psychology of sport, and physical activity and health. This course earns students a .5 credit of Health and a .5 credit of PE.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

English Program

The Secondary English Program offers a wide range of courses that provide opportunities for students to improve their skills in areas of reading, writing, listening, speaking, and research. The department offers both full-credit required courses, half-credit required courses (for seniors only), and a variety of electives in areas of theater and journalism.

The State College Area School District requires that all students take four years of English. Successful completion of full-credit required courses or two half-credit 12th grade required courses satisfies that requirement. Elective courses offer enrichment and reinforcement of specific language arts area but do not provide credit toward the English graduation requirement.

English Required Courses

Program	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Advanced	Adv English 9	Adv English 10	AP English Language & Composition IB Language & Literature Year 1	AP English Literature & Composition IB Language & Literature Year 2
College-Prep	English 9	English 10	CP English 11	<u>Must choose 2 half-credits options:</u> College Writing Creative Writing Crime & True Crime Lit Film & Media Studies Modern Classics Sci Fiction & Fantasy Lit Speech & Debate
ESL	English for English Language Learners 1A-5A, 1B-5B (ESL)			

English Elective Courses

Grades 09-12	Grades 10-12
Introduction to Theater or Journalism 1	Advanced Journalism or Journalism 2

English

Adv English 09



Course	Credits
Y207	1

Suggested Grade Level 9
Prerequisites:

Advanced English 9 is a course that prepares students for the rigorous demands of the advanced and AP programs in grades 10-12. Students are expected to be highly motivated, independent, show strong work habits, participate in class through discussion and presentations, and be dedicated to new challenges presented by unfamiliar readings and writings. Students develop their critical thinking skills through analysis and interpretation of literary genres from a variety of historical periods, focusing on their technical and aesthetic qualities as well as their intellectual merits. Student writing will consider literary texts from a variety of perspectives while concentrating on improving the content of their writing and polishing their writing style. Additionally, students build their reading and writing skills by studying vocabulary and grammar. See course description for English 9 for more information; Advanced English 9 moves at a faster pace, in greater depth, and will include more complex texts.

English 09



Course	Credits
Y206	1

Suggested Grade Level 9
Prerequisites:

In English 9, students will explore various aspects of what the term “character” means within their own identity and the world around them. Students will build an understanding of characterization as they read classic and contemporary novels, short stories, nonfiction, drama, and poetry. Students will develop their voice through writing practices including narrative, informative, and argumentative pieces while advancing their skills in grammar, mechanics, usage, and style. Students will build their critical thinking skills through analysis and interpretation of literary genres from a variety of historical periods, driving back to the focus question: What makes a strong character? Building community and communication skills are an integral part of the class and will be developed through table talks, presentations, and group discussions through a variety of interactions. The class has an emphasis on personal and academic growth through a diverse range of academic tasks. Students will demonstrate understanding through a variety of opportunities such as quizzes/tests, essays, projects, and presentations.

Adv English 10



Course	Credits
Y209	1

Suggested Grade Level 10
Prerequisites:

Students in Advanced English 10 experience the curriculum at a faster pace, in greater depth, and will study more complex texts. The Advanced level will prepare students for the rigorous demands of the weighted options available in grades 11 and 12. As the 10th grade English curriculum continues to develop students' language arts skills, students will explore the complexities of human interactions by reading texts that are both timeless classics and timely contemporary works. While they build reading comprehension, students will also grapple with critical questions about societal conflict, representation, voice and limitations of voice. Students will strengthen their analytical literacy skills and build writing stamina through a variety of research, creative, and argumentative pieces and will practice grammar and vocabulary during each unit of study. Students will demonstrate understanding through a variety of measures such as quizzes/tests, essays, projects, and presentations. Embedded learning throughout the course will prepare students for the Literature Keystone Exam that is administered in the spring.

English 10



Course	Credits
Y208	1

Suggested Grade Level 10
Prerequisites:

As the 10th grade English curriculum continues to develop students' language arts skills, students will explore the complexities of human interactions by reading texts that are both timeless classics and timely contemporary works. While they build reading comprehension, students will also grapple with critical questions about societal conflict, representation, voice and limitations of voice. Students will strengthen their analytical literacy skills and build writing stamina through a variety of research, creative, and argumentative pieces and will practice grammar and vocabulary during each unit of study. Students will demonstrate understanding through a variety of measures such as quizzes/tests, essays, projects, and presentations. Embedded learning throughout the course will prepare students for the Literature Keystone Exam that is administered in the spring.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid	Y- Year-Long
S- Semester	B- Before School
V- Virtual	I- IB Programme

English

CP English 11



Course Credits
Y201 1

Suggested Grade Level 11
Prerequisites:

We enter daily conversations about our world, from a social media story to a dinnertime exchange to a community roundtable. Writers also grapple with and respond to these same conversations. How do students, as writers themselves, align our perspectives with writers across time and space and contribute their own voices to these conversations? Designed for juniors who plan to be college or career-ready, students in this course read, analyze and interpret a variety of classic and contemporary works including novels, short stories, drama, poetry, nonfiction and media. Through close reading of both choice and assigned readings, students will examine writers' perspectives and craft and use these voices as a springboard for their own insights, also known as "entering the conversation." Students engage with these conversations through analytical writing, collaborative discussions, personal reflection and oral presentation. Additionally, students learn how to justify their claims with both primary and secondary sources. In each unit, students inquire about the interconnections between texts and media and their relevance to personal, local, national, and global topics, developing students into more independent readers and more critical consumers of text.

AP English Lang



Course Credits
Y222 1

Suggested Grade Level 11
Prerequisites:

The Advanced Placement English Language and Composition course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Students learn to analyze and evaluate the audience, purpose, and rhetorical strategies used by a wide variety of authors and apply those strategies to their own writing as they compose evidence-based argumentative, expository and analytical essays. This course prepares students for the Advanced Placement English Language and Composition Examination given in May. A successful score of three (3) or higher on this exam can earn a student credit at some colleges and universities.

AP English Lit



Course Credits
Y205 1

Suggested Grade Level 12
Prerequisites:

Advanced Placement English Literature and Composition offers highly motivated seniors with strong language arts skills a college-level course in the classics. Students analyze poetry, plays, essays and novels through class discussion of structure, characterization, theme, and style. Coursework requires a high level of skill in critical thinking, discussion, and expository and analytical writing as well as in other evaluations, including class projects and oral presentations. This course prepares students for the Advanced Placement English Literature and Composition Examination as well as college courses. A successful score of three (3) or higher on this exam can earn a student credit at some colleges.

IB Language & Literature Y1



Course Credits
I918 1

Suggested Grade Level 11
Prerequisites: English 9/Adv English 9 and English 10/Adv English 10

This two-year advanced course introduces the critical study and interpretation of diverse texts representing a wide range of literary (novels, poems, plays, short stories) and non-literary (street art, television/film/documentaries, podcasts, photography, advertisements, paintings) genres from across continents and time periods. The formal analysis of texts is grounded in understanding relationships between texts, historical and cultural contexts, and reader experiences. Students will have the opportunity to connect texts to local and global issues, reflect on their own perspectives, and engage in discussions that explore how readers construct meaning. Group collaboration and discussion are essential parts of this course. Students develop skills of literary and textual analysis, and also the ability to present their ideas effectively. Additionally, students keep a comprehensive portfolio that documents their personal inquiries and growth as they explore connections to texts studied in class. Students demonstrate their understanding through a variety of teacher and IB developed assessments. This is a required higher level course for students seeking an IB Diploma (DP Programme).



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

English

IB Language & Literature Y2



Course	Credits
I919	1

Suggested Grade Level 12

Prerequisites: I918 IB Language & Literature Y1

This two-year advanced course introduces the critical study and interpretation of diverse texts representing a wide range of literary (novels, poems, plays, short stories) and non-literary (street art, television/film/documentaries, podcasts, photography, advertisements, paintings) genres from across continents and time periods. The formal analysis of texts is grounded in understanding relationships between texts, historical and cultural contexts, and reader experiences. Students will have the opportunity to connect texts to local and global issues, reflect on their own perspectives, and engage in discussions that explore how readers construct meaning. Group collaboration and discussion are essential parts of this course. Students develop skills of literary and textual analysis, and also the ability to present their ideas effectively. Additionally, students keep a comprehensive portfolio that documents their personal inquiries and growth as they explore connections to texts studied in class. Students demonstrate their understanding through a variety of teacher and IB developed assessments. This is a required higher level course for students seeking an IB Diploma (DP Programme).

College Writing CP Eng



Course	Credits
S233	.5

Suggested Grade Level 12

Prerequisites:

College Writing, a .5 English credit, equips students with the skills that will effectively help them succeed in a college writing environment. Differentiation of writing instruction is offered to meet students where they are regardless of academic background. Students will sharpen their writing skills when presented with different modes, purposes, and tasks of writing that pertain specifically to audience and voice. There is a focus on using academically sophisticated grammar, vocabulary, and style within their written voice. The course is modeled after a freshman college writing course. The structure delves into experiential writing mini-lessons and incorporates multiple writing conference strategies. As a writing-intensive course, students can expect to compose every day—brief writing exercises and longer, fully-developed process pieces.

Creative Writing CP Eng



Course	Credits
S219	.5

Suggested Grade Level 12

Prerequisites:

Students will explore fiction and poetry writing in a series of short, focused units in this .5 credit semester course. Close readings of published works will provoke exploration and inspiration for student's own literary pieces. Writers' workshops help students become comfortable with sharing their own work and sharpen their skills as writers supporting each other in a community. Students are encouraged to publish their work and to enter creative writing contests.

Crime and True Crime Lit CP Eng



Course	Credits
S231	.5

Suggested Grade Level 12

Prerequisites:

The .5 credit semester course for seniors explores the history of crime literature and the emergence of the true crime drama. Modern true crime has all the elements of good storytelling, and the best true crime weaves the story for audiences using compelling literary techniques that captivate audiences. We will consider both the appeal and the ethics of the genre. The course will explore the police procedural and why are we still fascinated by it. It will also explore notions of the stereotypical criminal, morality, ethics, and highlight the insights this genre can offer into some of the challenges facing society today. The literature used in this course may include content for an adult audience.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
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V- Virtual I- IB Programme

English

Film & Media St CP Eng

Course Credits Suggested Grade Level
S224 .5 12
Prerequisites:

An introduction to the critical study of media and its influence on society, this class offers seniors a .5 English credit. Because media in all of its forms is a primary source of information for young people today, understanding this and thinking critically about media messages are essential skills in a consumer-based society such as ours. Students come to a more robust understanding of the role that media plays in the construction of our identities and our worlds through the reading of nonfiction texts; the viewing of documentaries based around the media; the writing of a research paper, reflective papers, and the creation of their own media messages in project-based form.

Modern Classics CP Eng

Course Credits Suggested Grade Level
S225 .5 12
Prerequisites:

This .5 credit semester course explores the nature of modern texts and how they respond to modern issues and reflect timeless questions. How can literature make meaning in regard to culture and current events? To what extent does literature reflect and shape our world? How do we know quality texts when we read them? How do we evaluate and identify the merit of “good” writing? Students will read and write about a variety of modern works—fiction, nonfiction, poetry, short stories, and essays and evaluate the elements distinguishing them as classics. In addition to leading class discussions, creating and sharing presentations, students will write argumentative, reflective, and analytical pieces and use research to support their ideas. This is a college preparatory level course.

Sci Fi/Fantasy CP Eng

Course Credits Suggested Grade Level
S226 .5 12
Prerequisites:

Students investigate science fiction and fantasy across multiple media, including literature, film, and television in this course worth .5 credits. Students will survey science fiction and fantasy works and trace the way each creator has responded to changing social conditions in the world today. We also explore the meaning behind science fiction and fantasy elements with an emphasis on real-world application. Students will engage with a variety of texts including short stories, one full-class read, a choice novel, genre films, and various genre-related TV shows, and respond with short-answer and essay-length assignments.

Speech & Debate CP Eng

Course Credits Suggested Grade Level
S210 .5 12
Prerequisites:

This semester course provides .5 credit toward the English graduation requirement for seniors only and offers students the opportunity to improve their oral presentation, critical thinking, research, and argumentation skills through a variety of fun and challenging speaking experiences. Fostering a safe, supportive environment is a priority in order to encourage students to take risks. Students will gain instruction in the elements of speechwriting and delivery to engage the audience with sharp messaging for purpose and occasion; verbal and visual communication skills will enhance the impact of the overall speech. Sharpening argumentation skills is a focus as they prepare deliberate messages and engage in a variety of debate experiences. Evaluations are based upon the student's degree of preparation and the quality of speeches and debate materials.

Intr To Theater

Course Credits Suggested Grade Level
S212 .5 9-12
Prerequisites:

Introduction to Theater provides motivated students with an active, participatory introduction to the theatrical arts as an elective course, which does not provide credit toward the English graduation requirement. Through hands-on projects and lectures, students learn about theater's evolution as a form and explore the basics of set design, stage lighting, costumes, props, make-up, acting, stage direction, script analysis, and directing. Class activities include projects in each of the technical areas of the theater and guest speakers and field trips. Exploration and development of skills in body awareness, movement, non-verbal communication, team building and improvisation is threaded through all units. Evaluation is based on participation, skill development and individual and group projects.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

English

Journalism 1

Course	Credits
S213	.5

Suggested Grade Level 9-12

Prerequisites:

Designed for self-motivated students who wish to work on high school publications, this elective credit course will meet for a semester and it is a prerequisite for editorial positions on the print newspaper, online newspaper, yearbook, and broadcast staffs. Through an apprenticeship model, students will learn basic skills of interviewing, journalistic writing, photography, editing, and layout. Students will practice these skills as they participate in publication and broadcast activities. Opportunities are provided to study the history of news media, current media practices, and media ethics and law. Evaluation is based on published work, use of class time and participation in all varieties of media. This course does not provide credit toward the English graduation requirement. Students may take it more than once for additional elective credit. Journalism curriculum applies ELA standards and is aligned with ISTE standards.

Journalism 2

Course	Credits
Y214	1

Suggested Grade Level 10-12

Prerequisites: Successful completion of Journalism 1

Journalism 2 provides experience in the practical applications of scholastic journalism including newspaper, broadcasting, and yearbook. Students will become new leaders in the apprenticeship model. Instruction and activities reinforce ethical journalistic practice, increase student responsibility and incentive, and develop skills in desktop publishing, specialized journalistic writing, layout and design, photography, and advertising in accordance with recognized scholastic journalistic standards. Students take this elective credit course (which does not provide credit toward the English graduation requirement) for the full year.

Adv Journ 2

Course	Credits
Y216	1

Suggested Grade Level 10-12

Prerequisites: Journalism 2, approved application for editorial role

Advanced Journalism 2 students continue to develop the skills learned in Journalism 2 as they work in experienced editorial roles to produce the newspaper, online newspaper, yearbook and broadcast. Students will act as experienced leaders in the apprenticeship model, providing leadership by taking more responsibility for managing and editing others' work in addition to producing their own. Students take this elective credit course (which does not provide credit toward the English graduation requirement) for the full year.

Mathematics Program

The State College Area School District has a comprehensive mathematics program for students with varying interests, backgrounds, and aptitudes in mathematics. There are Advanced and College-Prep course sequences. All course sequences are designed to prepare students for continuing education after high school.

Each course sequence includes experiences with Common-Core Mathematics strands of Number and Quantity, Algebra, Functions, Modeling, Geometry, Statistics and Probability. College-Prep courses cover all state-required competencies. Advanced courses are more mathematically rigorous, including rich experiences with reasoning, proof and mathematical modeling.

All students are required to take three years of high school mathematics to graduate, but it is strongly recommended that students study mathematics in every year of high school. Student will take the Algebra 1 Keystone Exam toward the end of the course when enrolled in CP Algebra 1 or CP Algebra 1B.

Mathematics Course Sequence

Program		7 th Grade		8 th Grade	
Advanced		Advanced Math 7		Advanced Algebra 1	
College-Prep		Introduction to Algebra & Geometry 7		Algebra & Geometry 8	
Program	9 th Grade	10 th Grade	11 th Grade	12 th Grade	
Advanced	Advanced Geometry	Advanced Algebra 2	Advanced Honors Precalculus Advanced Precalculus IB Math: Applications & Interpretations SL/HS Y1	AP Calculus BC AP Calculus AB IB Math: Applications & Interpretations SL/HS Y2	
College-Prep	CP Algebra 1 or CP Algebra 1A & B	CP Geometry Geometry	Algebra 2 CP Algebra 2 IB Math: Applications & Interpretations SL/HL Year 1	Functions & Trigonometry IB Math: Applications & Interpretations SL/HL Year 2 Precalculus	

Electives Available in Grades 11 & 12 to All Students Who Meet Prerequisites:

AP Computer Science	Statistics	Introductory Calculus
Advanced Topics in Mathematics	AP Statistics	

Mathematics

Adv Geometry



Course Credits
Y374 1

Suggested Grade Level 9
Prerequisites: Advanced Algebra 1

The general goals of this course are to develop an in-depth understanding of geometric concepts and use logical reasoning skills. The topics to be covered include properties of angles, lines, polygons and congruence, similarity, coordinate geometry, justification and proof, right triangles, vectors, circles, two-dimensional and three-dimensional shapes and figures. There is a substantial emphasis on independent proof writing. Significant algebra skills including factoring polynomials, solving quadratic equations by factoring, solving one-variable equations, simplifying expressions, and writing and solving systems of linear equations will be used to work problems in most units.

CP Algebra 1



Course Credits
Y379 1

Suggested Grade Level 9
Prerequisites:

Linear equations, functions, and inequalities are the primary focus of the first half of the course, with emphasis on solving equations and inequalities graphically and algebraically. The concepts of linear equations and inequalities are extended to systems of linear equations and inequalities. A study of absolute value equations and inequalities extends conceptions and skills of linear equations and inequalities. Equivalent expressions involving exponents, polynomials, rationals, and radicals are the primary focus of the second half of the course, with an emphasis on creating simplified equivalent forms using properties of real numbers. The course concludes with a statistical unit focused on analyzing data using plots and graphs.

CP Algebra 1A&B



Course Credits
Y388 2

Suggested Grade Level 9
Prerequisites:

Linear equations, functions, and inequalities are the primary focus of this course, with emphasis on solving equations and inequalities graphically and algebraically. The concepts of linear equations and inequalities are extended to systems of linear equations and inequalities. A study of absolute value equations and inequalities extends conceptions and skills of linear equations and inequalities. Equivalent expressions involving exponents, polynomials, rationals, and radicals are another primary focus of this course, with an emphasis on creating simplified equivalent forms using properties of real numbers. The course concludes with a statistical unit focused on analyzing data using plots and graphs.

This course meets daily. *Counts for one unit for NCAA Corp. requirements.

Adv Algebra 2



Course Credits
Y375 1

Suggested Grade Level 9-10
Prerequisites: Completion of, or concurrent enrollment in, College-Prep Geometry or Advanced Geometry

The primary focus of this course is to develop algebraic skills and apply them to non-linear contextual problems. This course is an in-depth study of the properties and sets of real numbers through abstract algebra, linear equations of one and two variables, matrices and systems of equations, polynomial, rational, quadratic, exponential, logarithmic, and radical functions, radicals and rational exponents, conic sections and probability.

CP Algebra 2



Course Credits
Y380 1

Suggested Grade Level 10-11
Prerequisites: Completion of or concurrent enrollment in College-Prep Geometry.

The primary focus of this course is to further develop algebraic skills and apply them to contextual problems. This course extends Algebra 1 concepts and includes a study of the following topics: quadratic functions, polynomial functions, radical functions and rational exponents, exponential and logarithmic functions, rational functions, and probability.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Mathematics

CP Geometry

Course	Credits
Y382	1

Suggested Grade Level 9-10
Prerequisites: College-Prep Algebra 1

The general goals of this course are to develop an understanding of geometric concepts and use logical reasoning skills. The topics to be covered include properties of angles, lines, polygons and congruence, similarity, coordinate geometry, justification and proof, right triangles, circles, two-dimensional and three-dimensional shapes and figures.

Geometry

Course	Credits
Y383	1

Suggested Grade Level 10
Prerequisites: CP Algebra 1B

The general goal of this course is to develop a working knowledge of geometric principles and logical thinking skills necessary to use these principles. This course is designed for students to be actively engaged through the use of hands on activities. Students will work in cooperative groups frequently to develop an understanding of geometric principles and to develop the ability to create a plan to find solutions to problems. The topics to be covered include properties of angles, lines, polygons and congruence, similarity, coordinate geometry, justification and proof, right triangles, circles, two-dimensional and three-dimensional shapes and figures.

Adv Hon Precalc

Course	Credits
Y359	1

Suggested Grade Level 10-11
Prerequisites: Advanced Geometry and Advanced Algebra 2

A rigorous treatment of different families of functions forms the basis of study for the course. An in-depth study of polynomial, rational, exponential, logarithmic, and trigonometric functions consists of connecting symbolic, graphical, and contextualized representations of functions. The concept of function is extended to sequences and series, and counting and probability. The second half of the course focuses on trigonometric functions, including the unit circle, triangle trigonometry, and analytical trigonometric identities. Trigonometric functions are conceptualized in the rectangular coordinate system, polar coordinate system, and complex coordinate system. Trigonometric functions are extended and applied to a study of parametric equations. Properties of functions and expressions will be derived and proved throughout the course.

Adv Precalculus

Course	Credits
Y358	1

Suggested Grade Level 10-11
Prerequisites: Advanced Geometry and Advanced Algebra 2

This course consists of the study of topics in mathematics that prepare students for Calculus. These topics include: families of functions, discrete math, and trigonometry. The analysis of quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions connects symbolic, graphical, and contextualized representations of functions. Discrete math topics to be explored are counting, probability, sequences, and series. An abstract and contextual understanding of right and oblique triangle trigonometry, radian measure, the unit circle, and polar coordinates will be developed. Identities and properties of trigonometric functions will be explored and applied to solve problems. In addition to an algorithmic understanding of concepts, there is an emphasis on analysis and synthesis of learned concepts.

Algebra 2

Course	Credits
Y384	1

Suggested Grade Level 11
Prerequisites: Geometry

The primary focus of this course is to further develop algebraic skills and apply them to real-world problems. This course extends Algebra 1 concepts through the use of experiments and explorations. The course includes a study of the following topics: linear functions in context, quadratic functions, polynomial functions, radical functions and rational exponents, exponential functions, and probability. This course emphasizes a graphical understanding of concepts utilizing available technology.

Mathematics

IB Math Applic & Interp HL Y1



Course Credits
1923 1

Suggested Grade Level 11-12
Prerequisites: Adv Algebra 2

IB Math: Applications and Interpretation HL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Mathematics: Applications and Interpretation HL includes all of the content of the SL course and substantial additional and more complex content in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.

IB Math Applic & Interp SL Y1



Course Credits
1921 1

Suggested Grade Level 11-12
Prerequisites: CP Algebra 1 & CP Geometry

IB Math: Applications and Interpretation SL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Content will include the study of topics in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.

AP Calc AB



Course Credits
Y361 1

Suggested Grade Level 11-12
Prerequisites: Advanced Precalculus or the recommendation of the Precalculus teacher

The AB Calculus course is a course in the calculus of functions of a single variable. It is a college-level mathematics course for which many colleges grant advanced placement credit. All students will be encouraged to take the Advanced Placement Mathematics examination in May. The course includes the study of limits using multiple approaches, how to apply limits to graphs, and the study of rates of change in context. The course also includes the study of differentiation including the derivative rules, approximating a derivative, and applying the derivative in real-world problem situations. The course also includes integration including accumulated change as well as application problems with area, volume and motion. Lastly, the course includes some elementary differential equations. A graphics approach to the subject will be employed, and graphics calculators will be used for various topics in the class.

AP Calc BC



Course Credits
Y362 1

Suggested Grade Level 11-12
Prerequisites: Advanced Honors Precalculus or the recommendation of the Advanced Precalculus teacher

The BC Calculus course is an intensive course in the differential and integral calculus of functions of a single variable. It is a college-level mathematics course for which most colleges grant advanced placement and as many as eight credits. All students will be encouraged to take the Advanced Placement Mathematics examination in May.

The course includes the study of limits using multiple approaches, how to apply limits to graphs, and the study of rates of change in context. The course also includes the study of differentiation including the derivative rules, approximating a derivative, and applying the derivative in real-world problem situations. The course also includes integration including accumulated change as well as application problems with area, volume and motion. The course also includes infinite series including convergence, divergence, Maclaurin and Taylor series and using series to make approximations. Lastly, the course includes vectors, parametrics, polar graphs and some elementary differential equations. A graphics approach to the subject will be employed, and graphics calculators will be used for various topics in the class.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Mathematics

Function & Trig



Course	Credits
Y354	1

Suggested Grade Level 12
Prerequisites: Algebra 2 or CP Algebra 2

This course focuses on applying and expanding upon previously acquired knowledge of functions to analyze data, make predictions and solve contextual problems. The analysis of linear, quadratic, exponential, logarithmic and trigonometric functions connects symbolic and graphical representations to applied problems. Emphasis is placed on using technology to create, use and analyze results from models.

Additionally, the course will extend previous trigonometry concepts from geometry to radian measure and the unit circle. Problems involving the use of both right and oblique triangle trigonometry will be explored in context.

IB Math Applic & Interp HL Y2



Course	Credits
I924	1

Suggested Grade Level 12
Prerequisites: IB Math Applic & Interp HL Y1

IB Math: Applications and Interpretation HL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Mathematics: Applications and Interpretation HL includes all of the content of the SL course and substantial additional and more complex content in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.

IB Math Applic & Interp SL Y2



Course	Credits
I922	1

Suggested Grade Level 12
Prerequisites: IB Math Applic & Interp SL Y1

IB Math: Applications and Interpretation SL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Content will include the study of topics in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.

Precalculus



Course	Credits
Y357	1

Suggested Grade Level 11-12
Prerequisites: College-Prep Geometry and College-Prep Algebra 2

This course consists of the study of topics in mathematics that prepare students for Calculus. These topics include: families of functions, discrete math, and trigonometry. The analysis of quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions connects symbolic, graphical, and contextualized representations of functions. Discrete math topics to be explored are sequences and series. An abstract and contextual understanding of right and oblique triangle trigonometry, radian measure, and the unit circle will be developed. Identities and properties of trigonometric functions will be explored and applied to solve problems.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid	Y- Year-Long
S- Semester	B- Before School
V- Virtual	I- IB Programme

Mathematics

Adv Topics Math



Course Credits
Y377 1

Suggested Grade Level 11-12
Prerequisites: Advanced Placement Calculus BC

Advanced Topics in Mathematics focuses on multivariable and vector calculus. Additionally, students will be expected to explore other mathematical concepts not typically found in a high school curriculum. The course begins with vectors in space and the appropriate operations, lines, planes, cylinders, and quadric surfaces. It continues with Vector-Valued Functions, the unit tangent vector, the unit normal vector, curvature, torsion, and the TNB frame. We will examine multivariable functions, limits and continuity, partial derivatives, gradient vectors, Lagrange Multipliers, and Taylor's Formula. Students will investigate double and triple integrals in various coordinate systems. The vector calculus portion of the course finishes with the study of vector fields, line integrals, surface integrals, Green's theorem, Stoke's Theorem, and the Divergence (Gauss) Theorem. The course continues with the study of linear algebra. Throughout the course, students will be expected to explore additional topics not typically found in a high school mathematics course.

AP Comp Sci



Course Credits
Y366 1

Suggested Grade Level 11-12
Prerequisites: Advanced Algebra 2 with completion of a CTC Computer Programming course OR completion of Advanced Precalculus.

AP Computer Science is a full-year programming course using the Java language. It is a college-level course for which many universities grant advanced placement credit dependent on the results of an AP Exam given in May. The course will begin with an introduction to Java syntax and style conventions and basic programming constructs such as data types, variables, control statements, iteration, and recursion. Well known algorithms will be applied to solve problems, especially when working with structures like Strings and Arrays. Object Oriented Programming Design will be employed throughout the course. The use of classes, hierarchies, and interfaces will be fundamental. Searching and sorting algorithms and their efficiencies will be discussed. At the end of the course, students will explore components that make programs more viable. Topics include streams and files, graphics, GUI components, mouse, keyboard, sound, and images. A culminating final project will give students the opportunity to showcase learned skills and concepts and to research new skills to create and present a program of their choice.

AP Stat



Course Credits
Y363 1

Suggested Grade Level 11-12
Prerequisites: Advanced Algebra 2 or a very strong performance in College-Prep Algebra 2

The purpose of Advanced Placement Statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring data: exploring patterns and departures from patterns.
2. Planning a study: deciding what and how to measure.
3. Anticipating patterns: predicting models using probability and simulation.
4. Statistical inference: confirming models.

Students who successfully complete the course and the Advanced Placement examination may receive credit and/or advanced placement for a one-semester introductory college statistics course. At least one statistics course is typically required for majors such as engineering, psychology, sociology, health science and business.

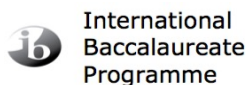
Intro Calculus



Course Credits
Y360 1

Suggested Grade Level 12
Prerequisites: Precalculus or Advanced Precalculus

Introductory Calculus is a full-year course covering differentiation and integration of functions of a single variable, with an emphasis on business applications. The concept of a limit will be introduced as a means for evaluating derivatives and integrals. Students will apply skills of differentiation to measure instantaneous rates of change and determine optimal solutions to contextual problems. Students will evaluate integrals using both Riemann Sums and antiderivative techniques and apply these skills in calculating total change. Students will create and solve differential equations to model real-world change. A graphing approach to the subject will be employed and graphing calculators will be used for various topics in the class.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Mathematics

Statistics

Course	Credits
Y386	1

Suggested Grade Level 11-12
Prerequisites: Algebra 2

The topics of this course will include exploration of categorical and quantitative data and comparison of data distributions. Students will learn to produce meaningful data by sample, surveys and experiment. Probability, normal distributions and sampling distributions of random variables are included. Students will learn to use confidence intervals and significance tests for means and proportions. This is not a lecture course, but rather one of active learning with an investigative approach to statistics.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid	Y- Year-Long
S- Semester	B- Before School
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Music Program

A music empowered student values music as part of a comprehensive education and an essential expression of the human experience. Students become lifelong patrons and practitioners of music through creativity, critical thinking, music literacy, and aesthetic awareness.

Students who are interested in performing music are provided with a sequential program of music courses in Band, Orchestra, Choir, Rock Ensemble and Guitar. Students may enter the sequence at any grade in the secondary schools by demonstrating to the music director their ability to perform music commensurate with that grade level. Select groups are available to challenge those students with more advanced abilities.

Students who are interested in creating music or understanding more about music are offered a variety of nonperformance electives, including Music Theory and AP Music Theory.

Program	9th Grade	10th Grade	11th Grade	12th Grade
Non-Audition Performing Ensemble Courses	9th Grade Band 9th Grade Choir 9th Grade Orchestra	10th Grade Band 10th Grade Choir - Upper Voices, Lower Voices Concert Strings	Concert Band Concert Choir - Upper Voices, Lower Voices Concert Strings	Concert Band Concert Choir - Upper Voices, Lower Voices Concert Strings
Audition Performing Ensemble Courses	Rock Ensemble	Rock Ensemble Adv Band/Sym Band Adv Choir/Master Singers Adv Strings Adv Rock Ensemble	Rock Ensemble Adv Band/Sym Band Adv Choir/Master Singers Adv Strings Adv Rock Ensemble	Rock Ensemble Adv Band/Sym Band Adv Choir/Master Singers Adv Strings Adv Rock Ensemble
Other Music Courses	Guitar 1 Music Theory 1	Guitar 1 Guitar 2 Music Theory 1 AP Music Theory	Guitar 1 Guitar 2 Music Theory 1 AP Music Theory	Guitar 1 Guitar 2 Music Theory 1 AP Music Theory
Extra Curricular *require participation in an ensemble course	Jazz Bands 1 & 2 Marching Band TrebleMakers (choir)	Chamber Orchestra Jazz Bands 1 & 2 Marching Band TrebleMakers (choir)	Chamber Singers Chamber Orchestra Jazz Bands 1 & 2 Marching Band	Chamber Singers Chamber Orchestra Jazz Bands 1 & 2 Marching Band

*9th Grade Performing Ensembles (full block)

Band (Y401) - half block

Orchestra (Y405) - half block

Choir (Y410) - half block

All three ensembles occur within the same full block and students may be enrolled in all three ensembles.

Each ensemble will meet for one half-block. Choir will meet for one half, while the band and orchestra will meet during the other half. Students who double in band and orchestra will be scheduled every other class meeting in each ensemble. Students only in one ensemble will be scheduled in a study hall for the other half-block, schedule another half-black course, or enroll in Learning Enrichment.

Music

9th Grade Band

Course	Credits	Suggested Grade Level
Y401	.5	9 Prerequisites: Participation in Eighth-Grade Band or audition with a Band director.

Ninth-Grade Band is intended for students interested in improving their skills in instrumental music. In rehearsals, students work to strengthen and improve their abilities to correctly perform band music at two public concerts. In addition, students enrolled in this band have the opportunity to participate in the High School Marching Band as well as the High School Jazz Bands.
*This course meets for one half block.

9th Grade Choir

Course	Credits	Suggested Grade Level
Y410	.5	9 Prerequisites:

Ninth-Grade Choir is intended for students interested in improving their performance skills in vocal music. In rehearsals, students work on the development of appropriate vocal production, sight reading and aural skills. Three public concerts will be presented yearly.
*This course meets for one half block.

9th Grade Orchestra

Course	Credits	Suggested Grade Level
Y405	.5	9 Prerequisites: Participation in Middle School Orchestra or audition with an Orchestra Director.

The Ninth-Grade Orchestra affords students the opportunity to gain experience playing a wide range of orchestral literature from various styles and periods.

In rehearsals, students work to develop an awareness of proper pitch, timbre, tone quality, rhythm and intonation. Students will expand skills in articulation, bowing, orchestral tone production and interpretation of the different styles of orchestral music in the course of preparing for two public concerts.
*This course meets for one half block.

Guitar 1

Course	Credits	Suggested Grade Level
S419	.5	9-12 Prerequisites:

The course will focus on learning the rudiments of guitar instruction including: proper posture, basic music notation, tablature, scales and chord reading. The class will also learn popular songs by ear and through using tablature. Students will play individually and in groups.
*Additional focus will be placed on using music software as a learning tool. This course is a prerequisite for Guitar 2.

Guitar 2

Course	Credits	Suggested Grade Level
S422	.5	9-12 Prerequisites: Successful completion of Guitar 1 or by instructor approval.

This course is intended for individuals who have successfully achieved the skills acquired in Guitar 1. Additional emphasis will be placed on advanced scale studies, traditional notation, individual class performance, and ensemble class performance.

Music

Music Theory 1

Course	Credits	Suggested Grade Level
S416	.5	9-12

Prerequisites:

This course is intended for students with limited experience with the fundamentals of music. Students study the basics of music theory, including scales, chords, intervals, keys, modes, rhythm, melody and harmony. Students are trained to hear and identify these music mechanics and to use them in composing and arranging works of their own and others.

Rock Ensemble

Course	Credits	Suggested Grade Level
S415	.5	9-12

Prerequisites: Audition with instructor

This course is designed to focus on contemporary popular ensemble music. In rehearsals, students participate in small group ensembles focusing on performing classic rock literature, along with writing, arranging, rehearsing and performing their own original compositions. Students must be proficient on their instrument and able to work positively in a small group environment. Students will be expected to demonstrate their command of melody, harmony, meter, tonality, ensemble balance and style through regular performance in class and at a final recital.

*Additional focus will be placed on sound reinforcement, musical equipment set-up, care and maintenance along with basic instrument repair.

10th Gr Choir Lower Voices

Course	Credits	Suggested Grade Level
Y424	.5	10

Prerequisites:

Tenth-Grade Choir - Lower Voices is for students who are interested in furthering their study of high school level choral literature in a non-audition choral ensemble that contains students of the lower vocal ranges. This allows for a learning experience tailored to the needs of lower voices. If you are a tenth grade student who sings in the tenor and bass ranges, enroll in "10th Grade Choir - Lower Voices". In rehearsals, students work to improve breathing technique, sight-reading, more advanced music notation reading, tone development, posture, and musical expression. No previous experience is necessary. At least three public concerts will be presented. These ensembles may travel to festivals and competitions as opportunities occur. This course meets for a half block.

10th Gr Choir Upper Voices

Course	Credits	Suggested Grade Level
Y423	.5	10

Prerequisites:

Tenth-Grade Choir - Upper Voices is for students who are interested in furthering their study of high school level choral literature in a non-audition choral ensemble that contains students of the higher vocal ranges. This allows for a learning experience tailored to the needs of higher voices. If you are a tenth grade student who sings in the soprano or alto ranges, enroll in "10th Grade Choir - Upper Voices". In rehearsals, students work to improve breathing technique, sight-reading, more advanced music notation reading, tone development, posture, and musical expression. No previous experience is necessary. At least three public concerts will be presented. These ensembles may travel to festivals and competitions as opportunities occur. This course meets for a half block.

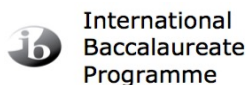
10th Grade Band

Course	Credits	Suggested Grade Level
Y402	.5	10

Prerequisites: Participation in Ninth-Grade Band or audition with a Band director.

Tenth-Grade Band is intended for students who are interested in furthering their study of high school level band literature. In rehearsals, students work to improve their performing skills, while preparing for two public concerts. In addition, students desiring more performance opportunities and greater challenges may audition for the High School Symphonic Band, as well as the High School Jazz Bands. All band members are also eligible to join the High School Marching Band.

*This course meets for one half block.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Music

Adv Band

Course	Credits
Y404	1

Suggested Grade Level 10-12
Prerequisites: Audition and acceptance into Advanced Band (also known as Symphonic Band)

This course, also known as Symphonic Band, is designed for motivated band students of advanced ability who plan on continuing their musical activities at the college/conservatory level. In rehearsals, the students work on the skills of blend, balance, tone quality intonation and proper interpretation, while preparing for three major concerts during the school year. Advanced Band students will receive an enriched curriculum which will address individual musical skills. In addition, students are eligible to audition for music festivals at the district, regional, state and all-eastern levels and to travel to festivals and competitions as the opportunities occur. Students enrolled in Advanced Band have the opportunity to participate in the High School Marching Band and to audition for the High School Jazz Ensembles.

Adv Choir

Course	Credits
Y412	1

Suggested Grade Level 10-12
Prerequisites: Audition in the winter for the next school year for acceptance into Advanced Choir/Master Singers.

This course, also known as Master Singers, provides a challenge for students who show exceptionally high levels of skill development and vocal maturity, and who plan on continuing their musical activities at the college/conservatory level. In rehearsals, students work on the skills of blend, balance, tone quality, intonation, and proper interpretation while preparing for four major concerts yearly. Advanced Choir students will receive an enriched curriculum which will address individual musical skills. In addition, students are eligible to audition for the PMEA festival system, which includes district, regional, state, and all-eastern levels choirs. Advanced Choir students will have the opportunity to audition for the Chamber Singers, an advanced level, extra-curricular choral ensemble and in travel opportunities.

Adv Rock Ensemble

Course	Credits
Y420	1

Suggested Grade Level 10-12
Prerequisites: Audition and Acceptance

This course is designed for self-motivated musicians who have already completed Rock Ensemble. The class will focus on contemporary popular ensemble music, including original composition. Students must be very proficient on their instruments and able to work positively in a small group environment. Students will be challenged with advanced study of melody, harmony, meter, tonality, ensemble balance and style through regular classroom performances and a final public recital.

*Additional training on sound reinforcement, musical equipment set up, care and maintenance will be a part of the curriculum.

Adv Strings

Course	Credits
Y407	1

Suggested Grade Level 10-12
Prerequisites: Audition and acceptance into Adv Strings.

This course is intended for motivated string students of advanced ability who plan on continuing their music activities at the college level. Advanced Strings students will receive an enriched curriculum which will address individual musical skills in addition to those assignments included in the orchestra curriculum.

AP Music Theory

Course	Credits
Y417	1

Suggested Grade Level 10-12
Prerequisites: Suggested Prerequisites: Successful completion of Music Theory 1, Reading notation / treble and bass clef / construction of Major and minor scales, intervals, triads and seventh chords.

This course is designed for students with extensive musical background who have plans on continuing musical study at the collegiate level. Prior knowledge of harmonic analysis, scales, keys, intervals, and keyboard skills are required prior to enrollment. In addition to advanced-level music theory, students will study musical form and music history, with extensive work in aural skills, melodic and harmonic dictation, music transcription and composition. The curriculum is designed to provide the necessary background for the successful completion of the AP test in Music Theory.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Music

Concert Band

Course	Credits	Suggested Grade Level
Y400	.5	11-12

Prerequisites: Participation in Tenth-Grade Band or audition with the Concert Band director.

The Concert Band is intended for students who are interested in performing excellent high school band literature. In rehearsals held every other day for the whole year, students work to expand their instrumental music skills while preparing for three public concerts. In addition, students are eligible to participate in the High School Marching Band and the High School Jazz Bands. Students desiring a greater challenge may also audition for the Symphonic Band.
*This course meets for one half block.

Concert Choir Lower Voices

Course	Credits	Suggested Grade Level
Y426	.5	11-12

Prerequisites:

Concert Choir - Lower Voices is a non-audition choral ensemble that meets with students in the lower vocal ranges. This allows for learning experiences tailored to the needs of lower voices. Students in 11th or 12th grade who sing in the tenor and bass ranges should enroll in "Concert Choir - Lower Voices". In rehearsals, students work to improve breathing technique, sight-reading, more advanced music notation reading, tone development, posture, and musical expression. No previous choral experience is necessary. At least three public concerts will be presented. These ensembles may travel to festivals and competitions as opportunities occur. This course meets for a half block.

Concert Choir Upper Voices

Course	Credits	Suggested Grade Level
Y425	.5	11-12

Prerequisites:

Concert Choir - Upper Voices is a non-audition choral ensemble that meets with students in the upper vocal ranges. This allows for learning experiences tailored to the needs of upper voices. Students in 11th or 12th grade who sing in the soprano and alto ranges should enroll in "Concert Choir - Upper Voices". In rehearsals, students work to improve breathing technique, sight-reading, more advanced music notation reading, tone development, posture, and musical expression. No previous choral experience is necessary. At least three public concerts will be presented. These ensembles may travel to festivals and competitions as opportunities occur. This course meets for a half block.

Concert Strings

Course	Credits	Suggested Grade Level
Y409	.5	10-12

Prerequisites: 9th grade orchestra or approval from the instructor. No audition required.

Concert Strings is intended for students who are interested in performing excellent high school orchestra literature. In ½ block rehearsals held every other day for the whole year, students work to expand their string orchestra music skills while preparing for two public concerts.

*This course meets for one half block.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
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Science Program

The Science Department encourages students to select a comprehensive science program which permits the exploration of a wide range of topics. State College students start their scientific exploration with Earth Systems Science and as their high school career progresses, move to Biology, Chemistry, Physics and the many science electives we offer.

The Science Department offers many advanced courses and electives to those students who have acquired an interest in a particular scientific discipline and want to expand those interests. Students should carefully read the course descriptions and study the sequence charts prior to selecting courses. Some courses are instructed at a higher level of difficulty and require a prerequisite science and/or mathematics background. Further, some courses are offered on alternate years and thus may be available only once in a student's high school career. Please read the descriptions carefully so that you may plan for course selections in future years. Some courses have been "nested" with courses from different yet related disciplines. Students enrolled in these nested programs will experience, transfer, and apply knowledge and skills among the disciplines represented while mastering the core content of individual courses, students register for both nested courses. More information on these courses is located in the SCASD STEM section in the front of this guide.

All Science courses are laboratory courses and upon successful completion of each, students earn credit in a laboratory science that meets college entrance requirements.

SCASD STEM Courses

To provide students with skills needed for success in the 21st Century, we have launched the Science, Technology, Engineering, (Arts) and Mathematics (STEM/STEAM) initiative. A key component of the STEM/STEAM initiative is the "nesting" of existing courses from different yet related disciplines into the master schedule such that students will be co-enrolled in these courses. Students enrolled in these "nested" programs will experience, transfer and apply knowledge and skills among the disciplines represented while mastering the core content of the individual courses. Registration for these "nested" programs commits students to participation in **all** components of these programs. Students may **not** participate in only one component of the program. Therefore it is incumbent upon students and parents to consider well the commitment in terms of time and effort required to be successful in these programs.

Advanced Physics 1 / AET (Y479):

1 credit Adv Physics 1, 1 credit Adv Engineering Technology Suggested grade level 11 – 12

Prerequisites: Successful completion of two Science courses (i.e. Earth Systems Science 1 or Advanced Earth Systems Science 1; Biology 1 or Advanced Biology 1; Chemistry 1 or Advanced Chemistry 1; Environmental Science 1). Completion of CP Algebra 2. Concurrent enrollment in Precalculus or AP Calculus.

This nested set of courses is designed for the student seriously considering a career in engineering or a related technical field. Advanced Physics 1 and Advanced Engineering Technology are scheduled back-to-back (in consecutive blocks) allowing for project work and integration of physics into engineering applications. The student will receive 1 credit and a separate weighted grade for each section of the course. Physics concepts will be algebra-based and include linear and projectile kinematics, dynamics, momentum, energy, wave theory, sound, electricity, magnetism, and other special topics time permitting. Critical thinking and problem solving skills are stressed with evaluation being based upon tests, quizzes, laboratory exercises, projects, homework and participation.

Advanced Engineering Technology gives students the opportunity to learn about and experience engineering topics through direct instruction, class work, activities, tests, labs and projects. Students will also experience engineering through guest speakers, field trips and face-to-face interactions with practicing engineers. STEM (Science, Technology, Engineering and Math) concepts are emphasized throughout. Students interested in a wider range of physics topics and a course that prepares them for the AP Physics 1 Exam should consider enrolling in the Advanced Placement Physics 1+ course.

Science Program

Suggested Sequence of Science Courses

Program	9 th Grade	10 th Grade	11 th & 12 th Grade
Advanced	Advanced Earth Systems Science 1	Advanced Biology 1	Advanced Biology Electives: Advanced Botany Advanced Zoology Advanced Chemistry 1 Advanced Chemistry 2 Advanced Earth Systems Science Electives: Advanced Astronomy Advanced Meteorology Advanced Physics/Advanced Engineering Tech Advanced Topics in Physics Anatomy and Physiology AP Physics 1+ AP Physics C Mechanics; Electromagnetism IB Environmental Systems and Societies IB Physics Year 1 IB Physics Year 2 Forensic Science Organic Chemistry
College-Prep	Earth Systems Science 1	Biology 1	Advanced Biology Electives: Advanced Botany Advanced Zoology Advanced Earth Systems Science Electives: Advanced Astronomy Advanced Meteorology Advanced Physics/Advanced Engineering Tech Anatomy and Physiology Chemistry 1 Chemistry Matters Environmental Science 1 Forensic Science IB Environmental Systems and Societies Organic Chemistry Physics 1 Physics: Sights, Sounds & Circuits Survivor Science – Elements of Survival Survivor Science – Wilderness Skills

Science

Adv Earth Systems Science 1



Course Credits
Y473 1

Suggested Grade Level 9
Prerequisites:

This course is recommended for students who have above average skills in mathematics (completion of Algebra 1) and who plan on pursuing a career in the fields of science and engineering. The class provides an in-depth look at the Earth systems, as they relate to the topics of astronomy, geology, oceanography, and meteorology. The nature of this advanced course is such that students study the topics in greater detail at a pace that provides for further enrichment. Students who take this course will utilize their mathematics knowledge and will be expected to demonstrate independent, higher order thinking and problem-solving skills, as measured through assessments, laboratory exercises, data analysis, homework assignments, special assignments and class discussions. This course is recommended as a prerequisite for the advanced electives in the Earth Sciences, and all other advanced courses in the sciences. May be scheduled concurrently with Advanced Biology 1.

Earth Systems Science 1



Course Credits
Y465 1

Suggested Grade Level 9
Prerequisites:

The class provides an investigation of the Earth systems as they relate to the topics of astronomy, geology, oceanography, and meteorology. Students will explore the interactions among these components in order to explain Earth's dynamics, Earth's evolution, global change and Earth's place within the universe. Students who take this course will utilize their mathematics knowledge with the guidance of the teachers. Students who pass this course may not elect to take Advanced Earth Systems Science at a later date. Evaluation of the students is based on tests, quizzes, laboratory exercises, homework and special assignments.

Adv Astronomy



Course Credits
S470 .5

Suggested Grade Level 10-12

Prerequisites: Completion of an Advanced Earth System Science 1 course or satisfactory completion and/or concurrent enrollment in Chemistry 1 or Advanced Chemistry 1 and Algebra 2.

This course designed for college-bound students seeking in-depth experiences in the Earth Systems Sciences. Emphasis is placed on understanding the physical environment through an increased awareness of the processes of science. A historical introductory unit combined with planetarium exercises will begin the search for natural laws that eventually will allow lessons to focus on planets, stars, galaxies and cosmology. This course of study builds on the astronomy concepts covered in all Earth Systems Science courses.

*This course alternates yearly with Advanced Geology.

Adv Geology



Course Credits
S468 .5

Suggested Grade Level 10-12

Prerequisites: Completion of an Advanced Earth Systems Science 1 course or satisfactory completion and/or concurrent enrollment in Chemistry 1 or Advanced Chemistry 1 and CP Algebra 2 or Advanced Algebra 2.

This course is designed for college-bound students seeking in-depth experiences in Earth Systems Science. Emphasis is placed on understanding the physical environment through an increased awareness of the processes of science. Areas covered include composition and deformation of the Earth's crust, mineralogy and petrography; sedimentology and stratigraphy; interpretation of topographical maps and aerial photographs; weathering and the development of land forms caused by mass-wasting, streams, groundwater, wind and glaciers; structural geology and reading geologic maps. Evaluation is based on tests, quizzes, laboratory activities, projects and field trips. This course of study builds on the geology concepts covered in all Earth Systems Science courses.

*This FALL course alternates yearly with Advanced Astronomy.

Not offered this year



International Baccalaureate Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Science

Adv Meteorology



Course Credits
S469 .5

Suggested Grade Level 10-12

Prerequisites: Completion of an Advanced Earth System Science 1 course or satisfactory completion and/or concurrent enrollment in Chemistry 1 or Advanced Chemistry 1; CP Algebra 2 or Advanced Algebra 2.

This course, along with other advanced Earth Science electives, is designed for college-bound students seeking in-depth experiences in Earth Science. Emphasis is placed on understanding the physical environment through an increased awareness of the processes of science. Areas covered include structures and composition of the atmosphere, heating of the atmosphere, atmospheric motion, storms, hazardous weather and weather prediction and modification. Evaluation is based on tests, quizzes, laboratory activities and projects. This course of study builds on the meteorology concepts covered in all Earth System Science courses.

*This SPRING course alternates yearly with Advanced Oceanography.

Adv Oceanography



Course Credits
S471 .5

Suggested Grade Level 10-12

Prerequisites: Completion of an Advanced Earth Systems Science 1 course or satisfactory completion and/or concurrent enrollment in Chemistry 1 or Advanced Chemistry 1, CP Algebra 2 or Advanced Algebra 2.

This course, along with other advanced Earth Science electives, is designed for college-bound students seeking in-depth experiences in Earth Science. Emphasis is placed on understanding the physical environment through an increased awareness of the processes of science. Areas covered include the impact of oceans on everyday life; methods of oceanographic research; chemistry, salinity, temperature and motion of water; submarine and coastal landforms; erosion and deposition of ocean sediments; marine ecology; and oceans as a resource. Evaluation is based on tests, quizzes, laboratory exercises and term projects.

*This SPRING course alternates yearly with Advanced Meteorology.

Adv Biology 1



Course Credits
Y474 1

Suggested Grade Level 10

Prerequisites: Satisfactory completion of Earth Systems Science 1 or Advanced Earth Systems Science 1, or concurrent enrollment in Advanced Earth Systems Science 1.

Advanced Biology 1 is an in-depth fast-paced, and rigorous study of fundamental topics within the field of biology with an emphasis on cellular, molecular, and environmental concepts. This course provides a foundation for further studies in biology at State High and at the post secondary level. Units of study include: Principles of Biology, Chemical Basis of Life, Bioenergetics, Homeostasis and Transport, Cell Growth and Reproduction, Genetics, Theory of Evolution, and Ecology. Laboratory activities are emphasized. Evaluation is based on tests, quizzes, homework, laboratory performance and projects. A high level of reading skill is essential for this course. This course meets the state required biology standards and prepares students for the required Keystone Biology Exam.

Adv Botany



Course Credits
S451 .5

Suggested Grade Level 11-12

Prerequisites: Completion of two science courses: Earth Systems Science 1, or Advanced Earth Systems Science 1 and Biology 1 or Advanced Biology 1 and concurrent enrollment or completion of Chemistry 1 or Advanced Chemistry 1.

Botany is a hands on approach to the study of plants and their relationship with the environment. This course along with other advanced biology electives is designed for students seeking in-depth experiences in new topics not covered in Biology. The areas of study includes plant diversity, anatomy, life cycles, hormones, nutrition, transport, and ecology. In addition, the classes will design and conduct research projects on a variety of plant-based topics including plant-pollinator interactions, growth patterns, invasive species, and GMO crops. This course includes field trips to local universities and research projects done in conjunction with PSU labs and faculty. This course relies heavily on laboratory activities, lab notebooks, and requires regular attendance. Evaluation is based on tests, quizzes, and laboratory performances.

This course when taken in conjunction with all the advanced biology electives prepares students for the AP Biology exam.

*This FALL course alternates yearly with Adv. Molecular and Cellular Biology.

Science

Adv Genetics



Course Credits
S454 .5

Suggested Grade Level 11-12

Prerequisites: Completion of two science courses: Earth Systems Science 1, or Advanced Earth Systems Science 1 and Biology 1 or Advanced Biology 1 and concurrent enrollment or completion of Chemistry 1 or Advanced Chemistry 1.

Not offered this year

Genetics is the study of genes, and gene variation. This course along with other advanced biology electives is designed for college-bound students seeking in-depth experiences in biology. Topics include cell division, genetics of viruses and bacteria, Mendelian inheritance, chromosomal inheritance, molecular genetics, and DNA technologies while integrating appropriate topics in chemistry. Particular emphasis is placed on development of current biotechnology procedures, working with living model organisms, and how they connect to other areas of science and technology. This course relies heavily on laboratory activities and requires regular attendance.

This course when taken in conjunction with all the advanced biology elective courses prepares students for the AP Biology exam.

*This SPRING course alternates yearly with Adv. Zoology

Adv Molecular & Cellular Bio



Course Credits
S453 .5

Suggested Grade Level 11-12

Prerequisites: Completion of two science courses: Earth Systems Science 1, or Advanced Earth Systems Science 1 and Biology 1 or Advanced Biology 1 and concurrent enrollment or completion of Chemistry 1 or Advanced Chemistry 1.

Not offered this year

Molecular and Cellular Biology is a scientific study that explores many fields of biology and techniques to understand cell function. This course will take a deeper look into the world of cells and how they connect to other areas of science and technology. These areas include cell division, organic molecules, bacterial growth and identification, and experimental design. This class also allows students to focus on a molecular approach overlapping with topics in chemistry, biotechnology, genetics and biochemistry. This course relies heavily on laboratory activities and requires regular attendance. MCB is very rewarding and helpful for college biology classes, but also very demanding.

This course when taken in conjunction with all of the advanced biology elective courses prepares students for the AP Biology Exam.

*This FALL course alternates yearly with Adv. Botany

Adv Zoology



Course Credits
S452 .5

Suggested Grade Level 11-12

Prerequisites: Completion of two science courses: Earth Systems Science 1, or Advanced Earth Systems Science 1 and Biology 1 or Advanced Biology 1 and concurrent enrollment or completion of Chemistry 1 or Advanced Chemistry 1.

Zoology is a hands on approach to the study of invertebrate and vertebrate animal systems in marine and terrestrial environments. This course along with other advanced biology electives is designed for students seeking in-depth experiences in new topics not covered in Biology. Topics include animal diversity, behavior, classification, and structure and function of body systems from jellyfish, squid, and sharks up through mammals. This course includes fieldtrips centered around research and labs done in conjunction with PSU faculty. This course relies heavily on laboratory activities with the animals and requires regular attendance. Evaluation is based on tests, quizzes, and laboratory performances.

This course when taken in conjunction with all the advanced biology electives prepares students for the AP Biology exam.

*This SPRING course alternates yearly with Adv. Genetics

Anatomy & Physiology



Course Credits
Y753 1

Suggested Grade Level 11-12

Prerequisites: Advanced Biology 1, Biology 1

This course will involve students in an in depth study of the structure and function of the human body. Special attention will be given to the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, immune, respiratory, digestive, lymphatic, urinary and reproductive systems. It will provide a firm foundation for further study at the post-secondary level. Students are encouraged to take Anatomy & Physiology with the other Health Professions courses.

It is recommended that students have two years of high school mathematics before scheduling this course.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Science

Biology 1



Course	Credits
Y467	1

Suggested Grade Level 10

Prerequisites: Completion of Earth Systems Science 1 or Advanced Earth Systems Science 1.

This course introduces the fundamental principles in the field of biology with an emphasis on cellular, molecular, and environmental concepts. Course provides a foundation for further studies in biology at State High and at the post secondary level. Units of study include: Principles of Biology, Chemical Basis of Life, Bioenergetics, Homeostasis and Transport, Cell Growth and Reproduction, Genetics, Theory of Evolution, and Ecology. Laboratory activities are emphasized. Evaluation is based on tests, quizzes, homework, laboratory performance and projects. This course meets state required biology standards and prepares students for the required Keystone Biology Exam.

Adv Chemistry 1



Course	Credits
Y458	1.5000

Suggested Grade Level 10 - 12

Prerequisites: Completion of Earth Systems Science 1 or Advanced Earth Systems Science 1, and completion of Biology 1, or concurrent enrollment in Advanced Biology 1. Concurrent enrollment in CP Algebra 2 or higher, or completion of Algebra 2.

This course is designed for students with a strong aptitude for mathematics who plan on pursuing a career in math, engineering or the sciences. Experimental and theoretical aspects of chemistry are explored. Topics will include - measurement, matter, atomic theory, nuclear chemistry, bonding, nomenclature, moles, reactions, stoichiometry, solutions, gas laws, rates & equilibria and acids/bases. Evaluation is based on tests, quizzes and laboratory reports.

Adv Chemistry 2



Course	Credits
Y459	1.5000

Suggested Grade Level 11-12

Prerequisites: Advanced Chemistry 1 and recommendation of Advanced Chemistry 1 teacher. Completion of Advanced Precalculus.

This laboratory intensive course is designed for students who plan to pursue a career in one of the physical sciences. Students will investigate the connections among numerous chemistry topics and will apply chemical theory in problem-solving and laboratory experimentation. Students develop independent investigative skills, including the presentation of experimental results in standard laboratory report format. Evaluation is based on tests, laboratory reports, and homework.

Completion of a physics course is recommended but not required.

Chemistry 1



Course	Credits
Y457	1

Suggested Grade Level 11-12

Prerequisites: Junior or Senior class standing. Completion of two science courses: Earth Systems Science 1, or Advanced Earth Systems Science 1 and Biology 1 or Advanced Biology 1.

This course is designed for the student who desires a basic understanding of the fundamentals of chemistry. Experimental, theoretical, and practical aspects of chemistry will be explored with an emphasis on the application and relevance of chemical principles. Topics will include matter, atomic theory, bonding, nomenclature, reactions, the mole, stoichiometry, and solutions. Upon successful completion of this course, students will earn a credit of laboratory science, which meets college entrance requirements. Evaluation is based on tests, quizzes, homework, and laboratory reports.

It is recommended that students be concurrently enrolled in CP Algebra 2 or higher.

Chemistry Matters



Course	Credits
S482	.5

Suggested Grade Level 11-12

Prerequisites: Successful completion of two science courses

Students who have successfully completed a Chemistry course may not take this course.

This lab-based course will explore concepts of chemistry with limited emphasis on mathematics. Chemistry is a science with a very practical outlook. Students will gain a unique perspective on what things are made of and why they behave as they do. Students will investigate topics related to matter, types of energy, gas laws, and how changes in matter results in new materials. This broad-based class is open to all students in 11th and 12th grades who have not taken a full year chemistry course.



International
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CTC Course



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Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Science

Forensic Science



Course	Credits
S486	.5

Suggested Grade Level 11-12

Prerequisites: Completion of two science courses: Earth Systems Science 1, or Advanced Earth Systems Science 1 and Biology 1 or Advanced Biology 1.

The lab-based course will provide an introduction to crime scene investigations and forensic science to solve crimes. Topics in the course will include Locard's Exchange Principle, Human Decomposition, Arson, Analysis of Trace Evidence, Fingerprints and Blood/DNA. A variety of investigative and scientific techniques will be employed to analyze fingerprints, glass, hair, fibers, blood typing and spatter, accelerants, and DNA. Students will develop the laboratory precision needed and apply their deductive reasoning skills to develop an explanation from available evidence.

Organic Chemistry

Course	Credits
S487	.5

Suggested Grade Level 11-12

Prerequisites: Completion or concurrent enrollment in Chemistry 1 or higher

This lab-based course focuses on the chemistry of carbon based compounds. The primary focus will be to understand and appreciate the connections that organic chemistry has to the numerous facets of life. Topics would include nomenclature, organic structures and functional groups, reaction mechanisms, synthesis, and analytical techniques. Students who intend to pursue a career in chemistry, medicine, pharmacy, biology, nursing, or veterinary medicine will find this course extremely beneficial.

Adv Physics 1 & AET



Course	Credits
Y479	2

Suggested Grade Level 11-12

Prerequisites: Successful completion of two science courses (i.e. Earth Systems Science 1 or Advanced Earth Systems Science 1; Biology 1 or Advanced Biology 1; Chemistry 1 or Advanced Chemistry 1; Environmental Science 1) Completion of CP Algebra 2. Concurrent enrollment in Precalculus or AP Calculus.

This nested set of courses is designed for the student seriously considering a career in engineering or a related technical field. Advanced Physics 1 and Advanced Engineering Technology are scheduled back-to-back (in consecutive blocks) allowing for project work and integration of physics into engineering applications. The student will receive 1 credit and a separate weighted grade for each section of the course. Physics concepts will be algebra-based and include linear and projectile kinematics, dynamics, momentum, energy, wave theory, sound, electricity, magnetism, and other special topics time permitting. Critical thinking and problem solving skills are stressed with evaluation being based upon tests, quizzes, laboratory exercises, projects, homework and participation.

Advanced Engineering Technology gives students the opportunity to learn about and experience engineering topics through direct instruction, class work, activities, tests, labs and projects. Students will also experience engineering through guest speakers, field trips and face-to-face interactions with practicing engineers. STEM (Science, Technology, Engineering and Math) concepts are emphasized throughout. Students interested in a wider range of physics topics and a course that prepares them for the AP Physics 1 Exam should consider enrolling in the Advanced Placement Physics 1+ course.

Adv Topics in Physics



Course	Credits
S484	.5

Suggested Grade Level 11-12

Prerequisites: Concurrent enrollment in or completion of AP Physics and AP Calculus

This course addresses select topics in physics, utilizing calculus to analyze rigorous problems. Content is drawn from among the following areas: Thermodynamics, Mechanical and Electromagnetic Waves, and Atomic Physics. There is a focus on student-centered engagement via problem-solving and laboratory investigations.



International
Baccalaureate
Programme



CTC Course



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Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
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V- Virtual I- IB Programme

Science

AP Physics 1+



Course	Credits
Y461	1.5000

Suggested Grade Level 11-12
Prerequisites: Algebra 2

This course provides a systematic introduction to foundational physics; including translational and rotational mechanics, electrostatics, and elementary circuitry. Further topics will be introduced as time allows and may include: fluids, heat and thermodynamics, light and optics, sound, electromagnetism, quantum theory, nuclear physics, etc. Emphasis is on the development of conceptual understanding and problem-solving ability using algebra and trigonometry. Frequent laboratory experiences are coordinated with classroom work. Evaluation is based on tests, homework, and laboratory reports. Students are encouraged to use this course as preparation for the Advanced Placement Physics 1 Exam.

AP Physics C: M & EM



Course	Credits
Y462	1.5000

Suggested Grade Level 11-12
Prerequisites: Completion of Earth Systems Science 1 or Advanced Earth Systems Science 1 and either Biology 1 or Advanced Biology 1 or Chemistry 1 or Advanced Chemistry 1. Concurrent enrollment or completion of AP Calculus (completion recommended).

This is intended as a second year course in physics designed for college-bound students who plan to major in engineering, medicine or one of the physical sciences. Completion of Adv Physics 1: AET, or AP Physics 1+ is highly recommended. This course emphasizes the application and synthesis of fundamental physics principles with introductory differential and integral calculus to the solution of rigorous problems.

The curriculum consists of mechanics and electromagnetism, topics in Mechanics include: Kinematics, Newtonian Dynamics, Work and Energy, Momentum Conservation and Collisions, Rotational Kinematics and Dynamics, Equilibrium, Oscillations and Gravitation. Topics in Electromagnetism include: Electrostatics, Electric Potential and Capacitance, D.C. Circuits, Magnetic Fields and Forces, Electromagnetic Induction and Maxwell's Equations.

This course includes a hands-on laboratory component comparable to an introductory college-level physics laboratory course. Students are encouraged to use the course as a preparation for both Advanced Placement Physics C examinations.

IB Physics Y1



Course	Credits
1935	1

Suggested Grade Level 11-12
Prerequisites: Algebra 2

This rigorous, college-level algebra based course introduces students to the principles that represent humanity's grasp of the entire physical universe. A broader coverage of physics topics is offered than in any other course available from this high school. A strong emphasis is placed on learning through many different methodologies. Students engage with lectures, hands-on experimentation, small group collaborative work and the usage of computer programming to solve complex problems. With a global emphasis, the societal, economic and environmental impacts of applied physics are explored as well as the moral and ethical dilemmas involved. Topics addressed include measurement and uncertainty, Newtonian mechanics, circular motion and gravitation, thermal physics, wave mechanics, electricity and magnetism, atomic/nuclear physics, particle physics, energy production and Einsteinian relativity. This course culminates in an authentic student-designed laboratory research project, preparing students to participate in the post-secondary research process. Students who take this course at the higher level will pursue additional topics in wave mechanics, vector field theory, electromagnetic induction and quantum mechanics.

IB Physics Y2



Course	Credits
1936	1

Suggested Grade Level 12
Prerequisites: IB Physics Y1

This rigorous, college-level algebra based course introduces students to the principles that represent humanity's grasp of the entire physical universe. A broader coverage of physics topics is offered than in any other course available from this high school. A strong emphasis is placed on learning through many different methodologies. Students engage with lectures, hands-on experimentation, small group collaborative work and the usage of computer programming to solve complex problems. With a global emphasis, the societal, economic and environmental impacts of applied physics are explored as well as the moral and ethical dilemmas involved. Topics addressed include measurement and uncertainty, Newtonian mechanics, circular motion and gravitation, thermal physics, wave mechanics, electricity and magnetism, atomic/nuclear physics, particle physics, energy production and Einsteinian relativity. This course culminates in an authentic student-designed laboratory research project, preparing students to participate in the post-secondary research process. Students who pursue the higher level will study additional topics in wave mechanics, vector field theory, electromagnetic induction and quantum mechanics.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Science

Physics 1

Course	Credits
Y460	1

Suggested Grade Level 11-12

Prerequisites: Successful completion of two prior science courses and concurrent enrollment in CP Algebra 2 or higher or completion of Algebra 2

This course is designed for the student who desires a basic understanding of the fundamentals that govern our universe. Physics 1 is an algebra-based introduction to a broad range of topics: linear kinematics, dynamics, momentum, energy and wave theory. Student involvement in discussions and laboratory activities is emphasized. Critical thinking and problem solving skills are stressed. Evaluation is based upon tests, quizzes, laboratory reports, activities and homework.

Physics:Sights,Sounds&Circuits

Course	Credits
S483	.5

Suggested Grade Level 11-12

Prerequisites: Successful completion of two science courses

This lab-based course will explore concepts of physics with limited emphasis on mathematics. Students will investigate topics related to types of energy, properties of light, mirrors, lenses, sound, musical instruments, current, voltage and simple circuits. This broad-based class is open to all students in 11th and 12th grades who have not taken a full year physics course. Students who intend to pursue careers in music, art, photography, and other liberal arts fields will find this course beneficial.

Environmental Science 1

Course	Credits
Y472	1

Suggested Grade Level 11-12

Prerequisites: Two credits in science

This course is designed for students interested in a challenging and rigorous course in Environmental Science. Students will investigate interactions among physical, chemical, biological and Earth systems. Inquiry activities related to the areas of study are emphasized. Students participate in laboratory activities, field trips, independent studies, small group activities and discussions. Students are expected to participate in field experiences. Evaluation is based on tests, quizzes, laboratory performance and projects. Topics will include dendrology, forest resources, ecology, wildlife studies, human populations, geology, aquatic ecology, soils as well as consideration of current environmental issues.

It is recommended that students have completed Algebra 2 or higher.

IB Enviro Systems & Soc

Course	Credits
I933	1

Suggested Grade Level 11-12

Prerequisites:

IB Environmental Systems and Societies is an interdisciplinary course which combines the study of environmental science and societal perspectives to help students better understand the environment and its sustainability. This course focuses on several current environmental problems and issues, including climate change, air and water pollution, soil systems and food production, biodiversity, and human resource use. Students consider both local and global environmental issues and their impact on society. Course instruction includes field trips, lab activities, and analysis of case studies in addition to an individual investigation of an environmental topic of personal interest.

Survivor Sci-Elements of Survival

Course	Credits
S496	.5

Suggested Grade Level 11-12

Prerequisites: Successful completion of two credits in science

This course will examine the elements of human survival on four levels: Primitive technologies, lost or stranded group or individual, natural disaster, and developing nations. Topics will include Dendrology (trees and shrubs) Wildlife, Knifecraft and Primitive Engineering, Land Navigation, Cordage, Knots and Shelter-Building. This course involves outdoor activities in forests and fields in varying weather conditions. Grades will be based upon classwork, fieldwork, labs, tests, and practical demonstrations of skills. Elements of Survival and Wilderness skills are considered companion courses. Students can take either or both. Students must take both courses to participate in the Trial By Fire.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Science

Survivor Sci-Wilderness Skills

Course	Credits	Suggested Grade Level
S497	.5	11-12

Prerequisites: Successful completion of two credits in science

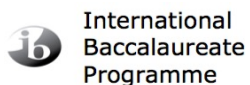
This course will examine the elements of human survival on four levels: Primitive technologies, lost or stranded group or individual, natural disaster, and developing nations. Topics will include Survival Psychology, Fire-Building, Ornithology (birds), Aquatic Ecology, Water Collection and Purification, and Survival Cooking. This course involves outdoor activities in forests and fields in varying weather conditions. Grades will be based upon classwork, fieldwork, labs, tests, and practical demonstrations of skills. Elements of Survival and Wilderness Skills are considered companion courses. Students can take either or both. Students must take both courses to participate in the Trial By Fire.

Res Sci & Engin

Course	Credits	Suggested Grade Level
Y476	1	11-12

Prerequisites: Successful completion of any 2 regular or advanced Science courses.
Successful completion of any 2 regular or advanced Mathematics courses

Students will learn and apply scientific research skills to original research projects. They will be mentored in problem delineation, literature search, hypothesis refinement, experimental design, methodology, data collection, statistical analysis, technical writing and presentation techniques. Findings and research progress will be presented in seminars. Instruction will be through guided discovery. Student progress will be assessed via participation in research seminars, review of research notes, papers and formal presentations to appropriate groups. These will include regional, state and national student research symposia and competitions. *This class meets by appointment so a student will need a study hall to meet with the instructor.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
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Social Studies Program

The Secondary Social Studies Program provides the student with the skills and knowledge to be an actively engaged citizen in a global society. The courses offered in grades nine through twelve meet the state requirements for graduation. The twelfth grade offerings are the capstone of the program, enabling students to select areas of study that are of personal interest and value to their post-high school plans. The State College Area School District requires students to earn four social studies credits by the end of their senior year in order to graduate. Educational guidelines for the state of Pennsylvania require that students take one world history and one United States history course.

Program	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Advanced	AP Human Geography	AP World History	AP US History IB Economics IB Business Mgt Year 1 IB History of Americans Year 1 IB World Religions	AP African American Studies AP Comparative Government AP European History (Early) AP European History (Recent) AP Government and Politics AP Psychology IB Economics IB Business Mgt Year 2 IB History of Americans Year 2 IB World Religions
College-Prep	Human Geography	Global Studies	CP US Global Society or US Global Society	Business Law 1 Business Law 2 Issues of Modern Society Democracy in Action Diversity & Social Justice Economics Psychology Sociology
English Language Learners	ELL Social Studies Emerging & ELL Social Studies Intermediate			

Social Studies

AP Human Geography

Course	Credits	Suggested Grade Level
Y582	1	9

Prerequisites:

The AP Human Geography course presents high school students with the curricular equivalent of an introductory college-level course in human geography or cultural geography. Content is presented and organized around the following themes: economic geography, cultural geography, political geography, and urban geography. Students are encouraged to participate in assignments and activities involving critical thinking and problem-solving. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis and impacts of globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction. Students enrolled in this course will investigate problems of economic development and cultural change, population change and growth, the impacts of technology, as well as struggles over political power and control of territory. In addition, students will study the inequalities between developed and developing economies and the role of humans in shaping Earth's landscapes.

Human Geography

Course	Credits	Suggested Grade Level
Y583	1	09

Prerequisites:

At the heart of the course, is the belief that students should understand the organization of their world, and its effects, as well as their role in the sustainability of the future. Content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic, cultural, political, and developmental geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Students look at the impacts of phenomena such as globalization and human-environment relationships on places, regions, and cultural landscapes. Students enrolled in this course will investigate problems of economic development and cultural change, population change and growth, the impacts of technology, as well as struggles over political power and control of territory. In addition, students will study the inequalities between developed and developing economies and the role of humans in shaping Earth's landscapes.

AP World History

Course	Credits	Suggested Grade Level
Y581	1	10

Prerequisites:

The AP World History Modern course focuses on developing students' understanding of world history from approximately 1200 C.E. to the present. The course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods employed by historians when they study the past. There is a focus on analyzing primary and secondary resources, making historical comparisons, chronological reasoning and understanding different points of view. The course focuses on Africa, the Americas, Asia, Europe and Oceania. The course is based on the following five themes: 1) interaction between humans and the environment; 2) development and interaction of cultures; 3) state building, expansion and conflict; 4) creation, expansion, and interaction of economic systems; 5) development and transformation of social structures.

Global Studies

Course	Credits	Suggested Grade Level
Y584	1	10

Prerequisites:

This course is an inquiry into global studies through a historical lens (1750 -1945) that includes American perspectives. In this course, students will be examining different developments politically, socially, and economically. Some of the topics will include revolutions, the Industrial Age, Reconstruction, Imperialism, nationalism, World War I, the Great Depression and World War II. The students will engage in an examination of primary source documents, debates, simulations, Socratic circles, internet based assignments, and research projects. The attempt is to critically analyze past events and developments in order to think and act as a responsible and productive global citizen. Skills to be stressed: geography skills, reading comprehension, research and writing, effective use of technology, expanding cultural awareness, and sharpening critical thinking skills and habits of mind.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Social Studies

AP US History



Course Credits Suggested Grade Level 11
Y502 1 Prerequisites:

This year-long introductory college-level course in United States history prepares students for success on the optional advanced placement national exam. Students study the social, political, and economic history of the United States chronologically from the period just prior to European contact through the present. Students develop their analytical history skills through extensive reading and writing assignments. Assessments will include the different components of the AP exam, class discussions, and research projects. This course is taught as a college-level course; consequently, students should expect reading and writing homework regularly.

CP US in a Global Soc



Course Credits Suggested Grade Level 11
Y585 1 Prerequisites:

This course is an inquiry into American studies through a historical lens (1945 - Present) that includes a global perspective. In this course, students will be examining different developments politically, socially, and economically. Some of the topics will include the Cold War, the Civil Rights Movements, the Vietnam Era, Economic Globalization and other events and Presidential Administrations of the 20th/21st centuries. Students will engage in an examination of primary source documents, debates and simulations. Socratic circles and research projects will be incorporated into the course. Students will be prepared to think critically and to analyze historical and current events and developments in order to think and act as a responsible and productive global citizen.

US in a Global Soc

Course Credits Suggested Grade Level 11
Y586 1 Prerequisites:

This course is an inquiry into American studies through a historical lens (1945 - Present) that includes a global perspective. In this course, students will be examining different developments politically, socially, and economically. Some of the topics will include the Cold War, the Civil Rights Movements, the Vietnam Era, Economic Globalization and other events and Presidential Administrations of the 20th/21st centuries. Students will engage in an examination of primary source documents, debates and simulations. Socratic circles and research projects will be incorporated into the course. A majority of the course requirements will be fulfilled during class time. Students will engage in reading and writing, with a strong emphasis on literacy skills and the analysis of primary and secondary sources. Students will be prepared to evaluate historical and current events and developments in order to think and act as a responsible and productive citizen.

IB Business Mgt Y1



Course Credits Suggested Grade Level 11,12
1939 1 Prerequisites:

Students learn to analyze, discuss, and evaluate business activities at local, national, and international levels. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation, and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools, and techniques and placed in the context of real world examples and case studies.

IB Economics



Course Credits Suggested Grade Level 11,12
1941 1 Prerequisites:

The IB Economics course is a study in both macroeconomics and microeconomics, with an emphasis on applying economic concepts and theories to real-world issues. Prominent among these issues are fluctuations in economic activity, international trade, economic development and environmental sustainability. Additionally, students will engage in a study of international economies, as well as developing economies. Participants will investigate the ethical dimensions involved in applying economic policies and practices, and attention will be paid to the development of possible solutions to the economic challenges that we face as an increasingly interdependent and global society.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Social Studies

IB History of Americas Y1



Course Credits
I942 1

Suggested Grade Level 11,12
Prerequisites:

The IB History of the Americas course is a two-year course, which will include a study of global history and issues, with an emphasis on Canada, Latin America, and the United States. The course focuses on student inquiry, investigation, and discussion. Students will study a variety of historical periods and events, including World War 2, the Cold War, the modern Americas, authoritarian states, and civil rights and civil liberties, and students will reflect on the global impact of these historical events. This course is designed to promote and enhance a student's critical thinking skills, and to allow students to learn history by investigating multiple perspectives and making comparisons over time.

IB World Religions



Course Credits
I944 1

Suggested Grade Level 11,12
Prerequisites:

The World Religions course seeks to promote respect for the diversity of religious beliefs, both locally and globally, with the aim of enhancing international and inter-religious understanding. This course will utilize historical and religious facts and experiences in order to engage students in an academic study of world religions. Each year, students will examine five to seven different world religions for the purpose of gaining a greater understanding of diverse religious and cultural perspectives. The course will be organized and structured around three fundamental questions which include: (1) What is the human condition? (2) Where are we going? (3) How do we get there?.

AP Comparative Gov



Course Credits
S499 .5

Suggested Grade Level 11,12
Prerequisites:

AP Comparative Government and Politics: college level course which introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students compare the effectiveness of approaches to many global issues by examining how different governments solve similar problems. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments.

AP Euro Hist:1450



Course Credits
S513 .5

Suggested Grade Level 11,12
Prerequisites:

This semester-long advanced elective in European history covers the period from the Renaissance through the Napoleonic Wars. Students are expected to take notes, carry out individual and small-group research projects, participate in class discussions and analyses, develop and refine essay-writing skills, and successfully answer both objective and essay-test questions. The course will focus on the following themes: interaction of Europe and the world, poverty and prosperity, objective knowledge and subjective visions, states and institutions of power; and individuals in society. Four categories of historical thinking skills are developed in the course: chronological reasoning; comparison and contextualization; crafting historical arguments from historical evidence; and historical interpretation and synthesis. Students who plan to take the Advanced Placement Exam in May are advised to register for both semester-long courses: Advanced Placement Early European History 1450-1815 and Advanced Placement Recent European History 1815-Present.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Social Studies

AP Euro Hist:1815



Course Credits
S514 .5

Suggested Grade Level 11,12
Prerequisites:

This semester-long advanced elective in European history covers the period from the Congress of Vienna to the present. Students are expected to take notes, carry out individual and small-group research projects, participate in class discussions and analyses, develop and refine essay-writing skills, and successfully answer both objective and essay-test questions. The course will focus on the following themes: interaction of Europe and the world, poverty and prosperity, objective knowledge and subjective visions, states and institutions of power; and individuals in society. Four categories of historical thinking skills are developed in the course: chronological reasoning; comparison and contextualization; crafting historical arguments from historical evidence; and historical interpretation and synthesis. Students who plan to take the Advanced Placement Exam in May are advised to register for both semester-long courses: Advanced Placement Early European History 1450-1815 and Advanced Placement Recent European History 1815-Present.

AP Government



Course Credits
S520 .5

Suggested Grade Level 11,12
Prerequisites:

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through an analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis.

AP Psychology



Course Credits
S524 .5

Suggested Grade Level 11,12
Prerequisites:

The course is designed for Seniors and Juniors who desire an academically challenging course of study in psychology. This course helps to prepare a student for the College Board Advanced Placement Psychology Exam in the spring semester of this academic year. AP Psychology meets a single semester social studies elective requirement for seniors. The Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of the behavioral and mental processes of human beings and other animals. Students are exposed to psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students participate in a variety of activities that may include homework, classwork, discussions, large and small group projects, individual projects, vocabulary development, lectures, and case study analysis. Reading comprehension and writing skills are stressed. Particular attention is given to the development of research organizations and the application of the principles of psychology.

Business Law 1



Course Credits
S608 .5

Suggested Grade Level 10-12
Prerequisites:

Course description: Business Law is a semester course designed to provide students with a solid foundation in understanding the legal issues in both personal and business legal rights and duties. If you like discussing and dissecting laws, this class is for you. Topics of study include our legal system, court procedures, case law, torts, contracts, employment and how our rights line up with our constitution. Students will conduct a mock trial using correct courtroom procedures. Any student interested in law, law enforcement, protective services, business or political science should consider this course.

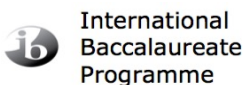
Business Law 2/Ethics



Course Credits
S598 .5

Suggested Grade Level 10-12
Prerequisites: Business Law 1

Business Law 2/Ethics is a semester course. Ethics is defined as moral principles that govern a person's behavior or the conducting of an activity. Companies practice or neglect ethical behavior on a daily basis. This course introduces topics such as applying moral philosophies to Business Ethics, politics, culture as a factor within ethics, social responsibility, moral dilemmas, social and media, and ethical standards within the business community. If you like debating, this class is a must. A main consideration of the course is to encourage good decision making by the students as they consider their future careers and decisions they make.



CTC Course



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Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
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Social Studies

Democ In Action

Course Credits Suggested Grade Level 11,12
S525 .5 Prerequisites:

In this semester-long senior course, students focus on American government and current issues relating to our system of government. The course enables students to participate effectively in civic life through the examination of national and international political, social, and economic problems. Issues covered include the purpose of government, the development of American Democracy, the United States Constitution and the Bill of Rights. In addition, students will investigate political campaigns and elections, current political processes and issues, and the role of citizens in a democracy. Students participate in a variety of activities including group and individual projects, research, simulations and oral presentations.

Diversity & Social Justice

Course Credits Suggested Grade Level 11,12
S552 .5 Prerequisites:

This course is designed to engage students in enriching and meaningful conversations regarding diversity, the law and social justice issues. Through the use of case studies, individual research, group discussion and debate students will examine concepts of justice, conflict and social change. Students will examine the cultural and historical contributions of different groups to the development of American society. Additionally, students will explore how economics, media, and political and social institutions create challenges for achieving and addressing social justice issues. The purpose of the course is to contribute to the development of actively engaged citizens who possess an understanding of the increasingly complex issues of the modern world.

Economics

Course Credits Suggested Grade Level 11,12
S505 .5 Prerequisites:

This semester-long course for college-bound seniors is designed for students who have an interest in the U.S. economic system and entrepreneurship. This course is a study of both Macroeconomics and Microeconomics with an emphasis placed on the practical application of economic concepts and theories. Students will be introduced to a variety of economic concepts, including economic decision-making, economic institutions, how individuals influence markets, growth and development, monetary and fiscal policy, and income inequality. Students will seek to connect common economic concepts to current events and issues. Students will be assessed through inquiry-based projects, simulations, and discussions.

Psychology

Course Credits Suggested Grade Level 11,12
S523 .5 Prerequisites:

This semester-long course is designed to introduce students to the systematic scientific study of the behavior and mental processes of human beings and other animals and the biological and theoretical foundations of psychology. Students will examine the ethical practices and responsibilities of psychological inquiry and understand the biological, social, and cultural influences on human behavior. Students will continue to develop analytical skills, conduct research, investigate the mind-body connection, analyze concepts of consciousness, analyze theories of intelligence, evaluate theories of personality, develop an understanding of psychological disorders, evaluate the role and effectiveness of treatments, and be aware of the importance of cultural diversity for understanding human behavior and interactions. Students will demonstrate their understanding of psychology through various projects, discussions, and assignments.

Sociology

Course Credits Suggested Grade Level 11,12
S503 .5 Prerequisites:

In this semester-long course, students study the complex relationship between groups and society. The course focuses on the use of sociological perspectives to examine the components of culture, social inequality, social structure and institutions. There is an academic exploration of our changing global society and modern-day challenges.

Social Studies

AP African American Studies

Course	Credits	Suggested Grade Level
Y542	1	12

Prerequisites:

AP African American Studies is an interdisciplinary course that draws from history, literature, the arts, geography, and science to examine the diversity of African American experiences through direct encounters with authentic and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora.

IB Business Mgt Y2

Course	Credits	Suggested Grade Level
I940	1	12

Prerequisites: IB Business Mgt HL Y1

Students learn to analyze, discuss, and evaluate business activities at local, national, and international levels. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation, and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools, and techniques and placed in the context of real world examples and case studies.

IB History of Americas Y2

Course	Credits	Suggested Grade Level
I943	1	12

Prerequisites: IB History of Americas HL Y1

The IB History of the Americas course is a two-year course, which will include a study of global history and issues, with an emphasis on Canada, Latin America, and the United States. The course focuses on student inquiry, investigation, and discussion. Students will study a variety of historical periods and events, including World War 2, the Cold War, the modern Americas, authoritarian states, and civil rights and civil liberties, and students will reflect on the global impact of these historical events. This course is designed to promote and enhance a student's critical thinking skills, and to allow students to learn history by investigating multiple perspectives and making comparisons over time.

Issues of Modern Society

Course	Credits	Suggested Grade Level
S587	.5	12

Prerequisites:

This semester-long course provides students with the opportunity to engage in the critical analysis of social, political and economic issues. The course is inquiry-based and challenges students to investigate current topics or issues from multiple perspectives in an effort to better understand the diversity and complexity of issues in the modern world. Deliberative Democracy is the foundation of the course. Students will seek, through discussion and deliberation, to find common ground and to grow to understand perspectives different from their own. Students participate in a variety of learning experiences. Assessments are project-based and are designed to allow students to demonstrate their learning in a variety of ways.



CTC Course



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Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
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World Languages Program

Why Study Languages?

Besides developing the skills necessary to communicate with people of another culture and learning about the culture and history of other regions of the world, research has shown that....

- The study of languages can aid in the development of reading and the ability to hypothesize in science.
- There is a correlation between language study and higher scores on the SAT and ACT tests, as well as higher academic performance in college.
- There is a correlation between bilingualism and memory skills, problem-solving ability and improved verbal and spatial abilities

The study of World Languages develops the skills of listening, speaking, reading and writing in a cultural context, which leads to functional competency in the chosen language. Students are required to actively participate in the target language in each course.

State College Area High School offers courses in six languages: Arabic, Chinese, French, German, Latin and Spanish.

Note: Parents or students, in particular those who are new to the district, should contact the World Languages coordinator, Amanda Showers (aks14@scasd.org), with questions regarding appropriate placement in the high school courses.

All language courses count as elective credit(s) for all Student Learning Communities (SLCs)

Program	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Arabic	Arabic 1	Arabic 1 Arabic 2	Arabic 1 Arabic 2	Arabic 1 Arabic 2
Chinese	Chinese 1	Chinese 1 Chinese 2	Chinese 1 Chinese 2 Chinese 3	Chinese 1 Chinese 2 Chinese 3 AP Chinese Lang & Culture
French	French 1 French 2	French 1 French 2 French 3	French 1 French 2 French 3 Advanced French 4 IB French 1 IB French 4	French 1 French 2 French 3 Advanced French 4 AP French Lang & Culture IB French 2 IB French 3 IB French 5
German	German 1 German 2	German 1 German 2 German 3	German 1 German 2 German 3 Advanced German 4 IB German 1	German 1 German 2 German 3 Advanced German 4 AP German Lang & Culture

Program	9th Grade	10th Grade	11th Grade	12th Grade
			IB German 4	IB German 2 IB German 3 IB German 5
Latin	Latin 1	Latin 1 Latin 2	Latin 1 Latin 2 IB Latin 3	Latin 1 Latin 2 IB Latin 3 IB Latin 4
Spanish	Spanish 1 Spanish 2	Spanish 1 Spanish 2 Spanish 3	Spanish 1 Spanish 2 Spanish 3 Advanced Spanish 4 IB Spanish 1 IB Spanish 4	Spanish 1 Spanish 2 Spanish 3 Advanced Spanish 4 AP Spanish Lang & Culture IB Spanish 2 IB Spanish 3 IB Spanish 5

World Languages

Arabic 1

Course	Credits
Y322	1

Suggested Grade Level 9-12
Prerequisites:

In Arabic 1, students will learn the basic structures of Arabic and their uses in everyday communication. The course focuses on the alphabet and spelling conventions of Modern Standard Arabic, as well as the four communication skills: listening, speaking, reading and writing. Students become aware of the multiplicity of the Arabic language in order to prepare them for the complex reality of the language. Students will study topics related to self, daily life and Arabic culture.

Chinese 1

Course	Credits
Y323	1

Suggested Grade Level 9-12
Prerequisites:

In Chinese1, students develop international-mindedness through the study of language, culture, and issues of global significance. Students learn to communicate in Chinese as well as develop an understanding of how language works. Students advance their communication skills through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of China.

French 1

Course	Credits
Y328	1

Suggested Grade Level 9
Prerequisites:

In French 1, students develop international-mindedness through the study of language, culture, and issues of global significance. Students learn to communicate in French as well as develop an understanding of how language works. Students advance their communication skills through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of francophone countries.

German 1

Course	Credits
Y329	1

Suggested Grade Level 9
Prerequisites:

In German 1, students develop international-mindedness through the study of language, culture, and issues of global significance. Students learn to communicate in German as well as develop an understanding of how language works. Students advance their communication skills through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of German-speaking countries.

Latin 1

Course	Credits
Y312	1

Suggested Grade Level 9-12
Prerequisites:

Students in Latin 1 will travel through time—they will explore the history, culture, and mythology of the ancient Romans through learning and using the language of the Romans, Latin. By reading stories in Latin, they will develop skills in vocabulary building, reading strategies, and critical thinking, while learning the fundamentals of the Latin language as well as making connections to modern languages. Students will learn about the Roman family, gods and goddesses, country life, early Roman history, politics, and the city of Rome, and will critically examine the role of these topics in today's society.

World Languages

Spanish 1

Course	Credits	Suggested Grade Level
Y330	1	9

Prerequisites:

In Spanish 1, students develop international-mindedness through the study of language, culture, and issues of global significance. Students learn to communicate in Spanish. In doing so, they also develop an understanding of how language works. Students expand their communication skills through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of Spanish-speaking countries.

Arabic 2

Course	Credits	Suggested Grade Level
Y324	1	10-12

Prerequisites: Successful completion of Arabic 1.

In Arabic 2, students continue to learn the structures of Arabic and their uses in everyday communication. They will review the alphabet and spelling conventions of Modern Standard Arabic and continue developing the four language skills: listening, speaking, reading and writing. Students will continue to study topics related to self, daily life, the world, and Arabic culture. Instructional methods are in line with current best teaching practices, including the use of technology and the inclusion of cultural concepts and how they are embedded in language.

Chinese 2

Course	Credits	Suggested Grade Level
Y325	1	10-12

Prerequisites: Chinese 1

In Chinese 2, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. Students advance their communication skills across time through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of China.

French 2

Course	Credits	Suggested Grade Level
Y302	1	9-12

Prerequisites: Successful Completion of French 1

In French 2, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. Students advance their communication skills, including expressing past and future time frames, through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of francophone countries.

German 2

Course	Credits	Suggested Grade Level
Y308	1	9-12

Prerequisites: Successful Completion of German 1

In German 2, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. Students advance their communication skills, including expressing past and future time frames, through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of German-speaking countries.

World Languages

Latin 2

Course	Credits
Y313	1

Suggested Grade Level 10-12
Prerequisites: Successful Completion of Latin 1.

Students in Latin 2 will continue to explore new topics on the history, culture, and mythology of ancient Rome through learning and using the Latin language. By reading stories in Latin including a first taste of authentic Latin literature, they will develop skills in vocabulary building, reading strategies, and critical thinking, while extending their knowledge of the Latin language and making connections to modern languages. Students will learn about the city of Rome, Roman dinner parties, the fall of the Roman Republic and the formation of the Empire, rites of passage, and mythology.

Spanish 2

Course	Credits
Y318	1

Suggested Grade Level 9-12
Prerequisites: Successful Completion of Spanish 1

In Spanish 2, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. Students advance their communication skills including expressing past and future time frames through listening, reading, writing and speaking activities related to academic and personal interests. For the development of receptive skills, students study authentic texts that explore the culture of Spanish-speaking countries.

Chinese 3

Course	Credits
Y326	1

Suggested Grade Level 11-12
Prerequisites: Chinese 2

In Chinese 3, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. The course develops students' awareness and appreciation of cultural products, practices, and perspectives through a variety of authentic materials including current events, fine arts, films, and technology. Students will apply communication skills in real-life situations including vocabulary usage, language control, communication strategies, and cultural awareness.

French 3

Course	Credits
Y303	1

Suggested Grade Level 10-12
Prerequisites: Successful Completion of French 2.

In French 3, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. The course develops students' awareness and appreciation of cultural products, practices, and perspectives through a variety of authentic materials including current events, fine arts, films, and technology. Students will apply communication skills in real-life situations including vocabulary usage, language control, communication strategies, and cultural awareness.

German 3

Course	Credits
Y309	1

Suggested Grade Level 10-12
Prerequisites: Successful Completion of German 2.

In German 3, students further develop and refine an understanding of the cultures of the German-speaking world through various topics, creative writing skills as well as their listening and speaking competencies. Class is conducted in German and students are expected to participate actively in whole-class and/or small group discussions.



CTC Course



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Keystone



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H- Hybrid Y- Year-Long
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World Languages

Spanish 3

Course	Credits
Y319	1

Suggested Grade Level 10-12
Prerequisites: Successful Completion of Spanish 2.

In Spanish 3, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. The course expands students' ability to examine and appreciate cultural products, practices, and perspectives through a variety of authentic materials from the Spanish-speaking world, including current events, fine arts, film, and technology. Students will apply communication skills in real-life situations such as vocabulary usage, language control, communication strategies, and cultural awareness.

Adv French 4

Course	Credits
Y304	1

Suggested Grade Level 11-12
Prerequisites: Successful completion of French 3.

Students expand and refine their communicative, cultural, and grammatical competencies in French through exploring the relationships between francophone cultures and the students' own cultures. Students learn to recognize and demonstrate an awareness of the interrelatedness of languages, literatures, and cultures through knowledge of the artifacts, expressions, and traditions of French speakers around the world.

Adv German 4

Course	Credits
Y310	1

Suggested Grade Level 11-12
Prerequisites: Successful completion of German 3.

In Advanced German 4, discussions are conducted in German on selected topics from the text and supplemental reading materials. In order to achieve greater fluency in speaking and writing, students focus on intensive practice of proper structure and usage. Assessments include written summaries of German short stories, guided compositions, quizzes and tests.

Adv Spanish 4

Course	Credits
Y320	1

Suggested Grade Level 11-12
Prerequisites: Successful Completion of Spanish 3.

This advanced, weighted course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness.

The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). It engages students in an exploration of culture in both contemporary and historical contexts.

To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish.

AP Chinese Lang & Culture

Course	Credits
Y327	1

Suggested Grade Level 9-12
Prerequisites: Chinese 3

AP Chinese Language and Culture is a course that covers the equivalent of a second-year (and/or fourth-semester) college Chinese course. It includes aural/oral skills, reading comprehension, grammar, and composition. The AP Chinese course is designed to provide students with varied opportunities to further develop their language proficiency across the three communicative modes—interpersonal (speaking, listening, reading, and writing skills), interpretive (listening and reading skills), and presentational (speaking and writing skills)—in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.



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World Languages

AP French Lang & Culture



Course Credits
Y305 1

Suggested Grade Level 12
Prerequisites: Successful Completion of Advanced French 4.

The AP French Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in French.

The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

AP German Lang & Culture



Course Credits
Y311 1

Suggested Grade Level 12
Prerequisites: Successful Completion of Advanced German 4.

The AP German Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP German Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in German.

The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

AP Spanish Lang & Culture



Course Credits
Y321 1

Suggested Grade Level 12
Prerequisites: Successful Completion of Advanced Spanish 4.

The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish.

The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

IB French 1



Course Credits
I961 1

Suggested Grade Level 11-12
Prerequisites:

IB French 1 is an advanced language course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

World Languages

IB French 2



Course Credits
1964 1

Suggested Grade Level 12
Prerequisites: IB French 1

IB French 2 is an advanced language course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB French 3



Course Credits
1967 1

Suggested Grade Level 11-12
Prerequisites: IB French 2

In French 3, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. The course develops students' awareness and appreciation of cultural products, practices, and perspectives through a variety of authentic materials including current events, fine arts, films, and technology. Students will apply communication skills in real-life situations including vocabulary usage, language control, communication strategies, and cultural awareness.

IB French 4



Course Credits
1947 1

Suggested Grade Level 11-12
Prerequisites: French 3

Students in IB French will continue to expand on previously learned communicative, cultural, and grammatical concepts by examining various cultural contexts in Francophone cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Francophone cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in French.

IB French 5



Course Credits
1948 1

Suggested Grade Level 12
Prerequisites: IB French 4

Students in IB French will continue to expand on previously learned communicative, cultural, and grammatical concepts by examining various cultural contexts in Francophone cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Francophone cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in French.

IB German 1



Course Credits
1962 1

Suggested Grade Level 11-12
Prerequisites:

IB German 1 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

World Languages

IB German 2



Course Credits
1965 1

Suggested Grade Level 12
Prerequisites: IB German 1

IB German 2 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB German 3



Course Credits
1968 1

Suggested Grade Level 11-12
Prerequisites: IB German 2

In IB German 3, students further develop and refine an understanding of the cultures of the German-speaking world through various topics, creative writing skills as well as their listening and speaking competencies. Class is conducted in German and students are expected to participate actively in whole-class and/or small group discussions.

IB German 4



Course Credits
1951 1

Suggested Grade Level 11-12
Prerequisites: German 3

Students in IB German will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in German-speaking cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of German-speaking cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in German.

IB German 5



Course Credits
1952 1

Suggested Grade Level 12
Prerequisites: IB German 4

Students in IB German will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in German-speaking cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of German-speaking cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in German.

IB Latin 3



Course Credits
1959 1

Suggested Grade Level 11-12
Prerequisites: Latin 2

Students in IB Latin will explore universal elements of the human condition through the study of Roman civilization and the great works of Latin literature. Students will focus on how the Latin language creates meaning through diction and style, how the interrelationship between author and audience contributes to meaning, and how texts inform our understanding of historical environments and cultural attitudes. Students will also explore ancient people's attitudes and perspectives relating to a specific topic of each student's personal interest. Ultimately, through the study of the Classical past, students will gain new perspectives on today's world and on the future.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

World Languages

IB Latin 4



Course	Credits
1960	1

Suggested Grade Level 12
Prerequisites: IB Latin 3

Students in IB Latin will explore universal elements of the human condition through the study of Roman civilization and the great works of Latin literature. Students will focus on how the Latin language creates meaning through diction and style, how the interrelationship between author and audience contributes to meaning, and how texts inform our understanding of historical environments and cultural attitudes. Students will also explore ancient people's attitudes and perspectives relating to a specific topic of each student's personal interest. Ultimately, through the study of the Classical past, students will gain new perspectives on today's world and on the future.

IB Spanish 1



Course	Credits
1963	1

Suggested Grade Level 11-12
Prerequisites:

IB Spanish 1 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB Spanish 2



Course	Credits
1966	1

Suggested Grade Level 12
Prerequisites: IB Spanish 1

IB Spanish 2 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB Spanish 3



Course	Credits
1969	1

Suggested Grade Level 11-12
Prerequisites: IB Spanish 2

In IB Spanish 3, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. The course expands students' ability to examine and appreciate cultural products, practices, and perspectives through a variety of authentic materials from the Spanish-speaking world, including current events, fine arts, film, and technology. Students will apply communication skills in real-life situations such as vocabulary usage, language control, communication strategies, and cultural awareness.

IB Spanish 4



Course	Credits
1955	1

Suggested Grade Level 11-12
Prerequisites: Spanish 3

Students in IB Spanish will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in Hispanic cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Hispanic cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in Spanish.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

World Languages

IB Spanish 5



Course Credits
1956 1

Suggested Grade Level 12
Prerequisites: IB Spanish 4

Students in IB Spanish will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in Hispanic cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Hispanic cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in Spanish.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
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Request for Junior/Senior Option State College Area High School

Definition:

Junior/Senior Option is a privilege for 11th and 12th grade students who are in good academic and disciplinary standing at the high school. Students who select and qualify for this option will be permitted to come to school after Period 1/2 or leave before Period 8/9. All 12th grade students must schedule a minimum of 6.0 credits and all 11th grade students must schedule a minimum of 6.5 credits.

Criteria:

Student Requirements/Criteria for Junior/Senior Option:

- Successfully completed a minimum:
 - o Juniors must complete a minimum of 14.25 credits by the end of sophomore year
 - o Seniors must complete a minimum of 20.75 credits by the end of junior year
- Have a minimum cumulative grade point average (GPA) of 2.0.
- Have his/her own transportation to and/or from school (***Juniors are not guaranteed a parking pass**)
- Administrative approval following a review of student discipline and attendance records.
- If a student fails one or more courses, becomes truant, or violates the code of conduct administration reserves the right to revoke senior/junior option privileges.

* Registering for Junior/Senior Option and meeting the above requirements/criteria does not ensure admittance. Required classes may need to be scheduled during blocks that would prevent a student from scheduling the Junior/Senior Option.

All information must be completed. Please print clearly. Turn completed forms into the Counseling Office for processing.

Your Name (First, Last): _____ Next Year's Grade: _____

Student #: _____ Credits Earned: _____ Current G.P.A.: _____

Junior/Senior Option: please indicate your preference: Period 1/2 _____ **Period 8/9** _____

Parent/Guardian (please print): _____ Parent/Guardian Signature: _____ Date: _____

(Office Use Only)

School Counselor

- Request Approved
 - Credits verified
 - GPA verified
- Request Denied

Signature of Counselor: _____ Date: _____

School Administrator

- Request Approved
 - Attendance records verified
 - Discipline records verified
- Request Denied

Signature of Administrator: _____ Date: _____

Career and Technical Center

State College Area High School Career and Technical Center

Introduction

State High's **Career and Technical Center** provides engaging, academically rigorous, and career-focused coursework through programs of study (POS) in a wide variety of content areas. An approved POS for each program, provides a roadmap for students to navigate educational options and prepare them to successfully transition into post-secondary education, careers, and lifelong learning. Students receive technical training, employability skills, and academic proficiency, while also having the opportunity to earn free and reduced college credits.

Stakeholders representing post-secondary institutions, businesses, and local industries continue to partner with our CTC to provide advice, recommendations, and resources to promote continual improvement in all program areas. This collaboration and continued effort, results in our ability to provide top notch teachers, facilities, and partnerships. We believe that CTC is an excellent option for all SCAHS students and encourage everyone to take advantage of this wonderful opportunity.

Instructional Hour Calculations – Each CTE credit earned at SCAHS is the equivalent of 135 instructional hours as listed in each scope and sequence for all approved programs in the PDE CATS profile for SCASD. In addition, 2 credit courses = 270 hours and 0.5 credit courses = 67 hours. The formula for calculating CTE instructional hours is as follows: $CTE\ Hours = [(90\ mins\ per\ block) * (\#\ of\ school\ days\ the\ course\ occurs\ per\ year)] / 60\ mins\ per\ hour.$

Programs of Study

Agricultural Science	Early Childhood Education
Architectural Drafting & Design	Engineering
Aspiring Educators	Family Consumer Sciences
Automotive Technology	Health Professions
Building Construction Technology	Sports Therapy & Exercise Science
Business Management	Technology Education
Computer Programming	Workforce Development & Diversified Occupations
Culinary Arts	

Explore the Possibilities

High school is the perfect time to explore new opportunities and develop valuable experience. Students are encouraged to research and consider future careers and potential college majors by investigating the many courses offered through the CTC at State High. Career and Technical Education (CTE) in Pennsylvania offers students the opportunity to develop critical skills through a combination of classes and hands-on learning

experiences, which allow them to apply academics to real-world problems. See the [PDE website](#) and [watch their promotion video](#) for more information related to CTE.

Scheduling – Students apply for CTE courses when submitting their course requests for the following school year. If the number of student requests for enrollment is greater than the availability of placements (capacity) for any course, the school district utilizes a random selection process through the electronic student information system scheduling software. This process allows our district to maximize appropriate placement in a fair, consistent, and impartial manner as outlined in the SCASD Board of Director Policy Manual section 100 Programs under Career and Technical Education. Admission to career and technical programs is open to such regularly enrolled students as are qualified by their interest and aptitude for achieving occupational success or other goals of the program. Students are encouraged to work closely with a counselor to carefully consider all available options and effectively meet their educational needs and career goals. To learn more, visit the [CTC Webpage](#) on our district website to access valuable information and promotional videos for all our CTE programs.

Benefits of CTC Course Completion

All CTC students experience industry based training and will have the opportunity to earn **Industry Recognized Certifications and Credentials**. These courses also allow students to gain high level skills and provide the ability to pursue high wage occupations. In addition, students have the option to participate in **Career and Technical Student Organizations (CTSOs)**, as well as **Earn Free and Reduced College Credits**. Students are also provided an opportunity to participate in Work Based Learning Experiences including **Cooperative Capstone (paid job placement), clinical placements, internships, and teaching assistants**. These opportunities allow select students to extend and reinforce classroom learning to the real-world environments.

Free and Reduced College Credit: All CTC students at SCAHS have the opportunity to earn Free and Reduced College Credits. This opportunity provides a firm foundation for pursuing post-secondary education. Students may take advantage of the all of the following ways to earn college credits:

- 1. Dual Enrollment/College in the High School Programs** – This program allows qualified students to earn credits from the college and the high school at the same time. These college level classes are offered during the school day at a reduced rate and are taught by the CTC program instructors. College credits count towards a degree program at the college earned or transferred to other colleges.
- 2. Direct Articulation Agreements** – Students articulate skills and tasks gained at State High to course credit earned in a postsecondary college degree, diploma, or certificate program. Qualifying students receive FREE credit from the college upon admission.
- 3. Statewide Articulation Agreements – Students Occupationally and Academically Ready (SOAR).** These agreements articulate skills and tasks gained at the high school level to course credit earned in a postsecondary college degree, diploma, or certificate program. Qualifying students receive FREE credit from the college upon admission.

For more information go to [CollegeTransfer.net](#) to learn how credits are accepted and transfer at higher education institutions. Also search the [PA Bureau of CTE SOAR Programs of Study](#) or to see how SOAR credits are earned and accepted at higher education institutions. To view more information concerning SOAR Programs of Study please visit the [BCTE Website](#).

Agricultural Sciences

The Agricultural Science program is designed to help students develop skills and explore career areas related to agricultural sciences. This program explores topics in animal science, plant science, soil science, natural resources, agricultural mechanics and technology, food science, biotechnology, agribusiness and leadership. Students will explore these concepts through hands-on, real world applications, labs and activities in our mechanics shop, classroom greenhouse and throughout the school grounds. Students will acquire skills and knowledge necessary to meet their individual career objectives, occupational skills for gainful employment and leadership abilities to work effectively in groups and as a team. Additionally, this program provides opportunities for research and supervised work experience to meet the needs and interests of each student. Students may also choose to take college credits through our Dual Credit Options and may receive science credit for agriculture courses that they take. Students are encouraged to participate in our Career & Technical Student Organization, FFA which offers opportunities to develop premier leadership, personal growth and career success, as well as earn scholarships, grants, trips and local, state and national recognition for their efforts.

Agricultural Scope and Sequence

Foundations of Agriculture (Y620)
Food Production (S639)
Natural Resources (Y624)
Agricultural Mechanics & Tech (S631)
Plant Science (Y626)
Animal & Veterinary Sciences (Y623)
CWE Ag Science (Y637)
Supervised Ag Exp (SAE) (Y636 or S636)

*Courses are listed in the sequential order that they should be completed with introductory courses listed at the top moving downward to more advanced courses.

Agricultural Sciences

Foundations of Agriculture

Course	Credits	Suggested Grade Level
Y620	1	9

Prerequisites:

This course is designed for ninth grade students to explore what agriculture is and how it impacts our everyday life. Students will learn about career opportunities in agricultural related industries while developing career readiness skills. Specific areas of study will include; agricultural careers, FFA, leadership, communication, plant science, animal science, natural resources and agricultural mechanics. This course is a prerequisite for all other Agricultural Science courses as students learn about the production and management of agricultural resources, services, and products. Students will become affiliate members of FFA and will have the option to be dual-enrolled in a Supervised Agricultural Experience course.

Food Production

Course	Credits	Suggested Grade Level
S639	.5	10

Prerequisites: Foundations of Agriculture

How does our food get from the farm to our fork? In this course, you will explore and learn about this fascinating process. Throughout the course, students will learn what it takes to produce, process, market and sell agriculture products for food. Emphasis will be placed on animal and plant related food, while also incorporating food safety, security and ethics. Specific areas of study include; livestock production (cattle, swine, poultry, etc.), agronomic crop production, food security, food safety, biotechnology, value added processing, and marketing. Students will become affiliate members of FFA and will have the option to be dual-enrolled in a Supervised Agricultural Experience course.

Natural Resources

Course	Credits	Suggested Grade Level
Y624	1	10

Prerequisites: Foundations of Agriculture

This course will focus on the management and restoration of our natural resources. Students will learn about the economic benefits of natural resource management, as well as the effect that using our natural resources has had on Earth's ecosystems, through real-world scenarios. Specific topics of study include; agroecology, Pennsylvania's wildlife (mammals, fish, etc.), forestry, aquatics and soils. Students will become affiliate members of FFA and will have the option to be dual-enrolled in a Supervised Agricultural Experience course.

Agricultural Mechanics & Tech

Course	Credits	Suggested Grade Level
S631	.5	10

Prerequisites: Foundations of Agriculture

Students will be introduced to the basics of Agricultural Mechanics and the technology used in the Agricultural industry. Students will work in the classroom and lab area, to complete a combination of academic and hands- on tasks and assignments. Specific areas of study include: MIG and Electric Arc welding, small gas engines and agriculture construction. Additional topics may include masonry, GPS, precision agriculture, electrical wiring and/ or plumbing. Students will become affiliate members of FFA and will have the option to be dual-enrolled in a Supervised Agricultural Experience course.

Plant Science

Course	Credits	Suggested Grade Level
Y626	1	11

Prerequisites: Foundations of Agriculture

This course will introduce students to the horticulture and plant science industry through a series of hands-on labs and activities. Students will have the opportunity to work in the school's greenhouse and outdoors within the school grounds. Specific topics of study include: horticultural safety, soils, plant structure & function, plant reproduction, plant nutrition and floriculture. Students will become affiliate members of FFA and will have the option to be dual-enrolled in a Supervised Agricultural Experience course. *Students can request to receive Science credit for completing this course.

Agricultural Sciences

Animal & Veterinary Sci

Course	Credits	Suggested Grade Level
Y623	1	12

Prerequisites: Foundations of Agriculture

The animal and veterinary science industry is a growing field of study! This course is designed to provide students with an in-depth understanding of the animal industry and prepare them for a career in the animal or veterinary field. Labs and case studies will provide students with hands-on, real-world application of course content. Particular emphasis will be placed on the science behind animal agriculture, animal uses in historical and modern societies, anatomy and physiology, safety and sanitation, general animal care and animal ethics. Both small and large animals will be explored in this course. Students will become affiliate members of FFA and will have the option to be dual-enrolled in a Supervised Agricultural Experience course.

CWE Ag Science

Course	Credits	Suggested Grade Level
Y637	.5 to 2	12

Prerequisites: This course is only available to students who are enrolled as a secondary concentrator of the CTC Program and have prior approval through the instructor.

The Career Work Experience (CWE) Course is only available to seniors who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows graduating seniors to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

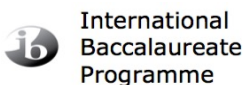
There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, and Independent Research. Each year the instructor will announce these opportunities to 11th grade students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.

Supervised Ag Exp (SAE)

Course	Credits	Suggested Grade Level
Y636 S636	1 or .5	9-12

Prerequisites: Must be enrolled in at least one other Agriculture Science Course.

Students enrolled in a state-approved Agricultural program are mandated by the state to maintain Supervised Agricultural Experiences (SAE's). SAE's provide students with real-world, career-oriented experiences that are geared toward the individual students' interests. This course provides students with an avenue to complete their Supervised Agricultural Experience, as well as participate as a member of FFA, the Agricultural student leadership organization. This course will be student-led, with teacher guidance provided. The format of this course will be a combination of out-of-school experiences, virtual lessons and in-person meetings with the teacher. Students may take this course multiple times.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Architectural Drafting and Design

The Architectural Drafting and Design program provides students the opportunity to explore architecture and engineering fields of study and professions. Students will develop skills and proficiencies needed for employment as a draftsman and or post education in Architecture, Landscape Architecture, Engineering, Architectural Engineering and Interior Design. Lab oriented projects, construction site field trips and professional guest speakers occur throughout the school year. Competitive extracurricular activities with the Technology Student Association (TSA) and SkillsUSA allow students to further explore architecture and engineering.

Architectural Drafting and Design Courses

Arch Draft & Design 1 (S699)
Arch Draft & Design 2 (Y703)
Adv Arch Draft & Design 3 (Y706)
Adv Arch Draft & Design 4 (Y821)

*Exploring Engineering can count as a prerequisite for Arch Draft & Design 2

Architectural Drafting and Design

Arch Draft & Design 1

Course Credits Suggested Grade Level 9-12
S699 .5 Prerequisites:

The course is the foundation of the Architectural Drafting and Design Program. In this lab oriented course, students learn the skills used daily in an architectural and engineering firm. Students will learn to represent objects with accepted drawing technique, practices, standards and 2D-Computer Aided Drafting (CAD). Students will also learn about interior design and have the opportunity to design a room per certain design criteria, as one does in an architectural or interior design firm. This course is recommended for those that want to explore careers in architecture, landscape architecture, architectural engineering or an engineering related field.

Arch Draft & Design 2

Course Credits Suggested Grade Level 10-12
Y703 1 Prerequisites: Arch Draft & Design 1 and/or Exploring Engineering with a grade of C+ or better.

The course is a continuation of the Arch Drafting and Design 1 course. In this lab-oriented course, students will first complete a to-scale model of a State College landmark building. The student will utilize the foundation skills from Arch 1 and add new skills to generate the model. Next, the student will begin to learn about residential construction. Students will design a home and prepare sketch bubble diagram floor plans as one would do in an architectural firm. The drawings will be critiqued by their fellow classmates and given suggestions of changes to be made. The floor plans will then be drafted in AutoCAD. The exterior elevations, various building details and the site plan will then be generated. Basic structural, mechanical, plumbing and electrical components will be introduced to the student.

Adv Arch Draft & Design 3

Course Credits Suggested Grade Level 11-12
Y706 1 Prerequisites: Arch Draft & Design 2 with a grade of C+ or better.

This is an advanced weighted course. Students will study the various building elements, loads, components, and systems, how they come together, and how they must be compatible and integrate with one another during design and construction of a building. Students develop projects that include model construction, detailed working drawings, presentation drawings and renderings. Problem-solving and design skills are strengthened and proficiency increased through the use of traditional drafting equipment, 2D-CAD and 3D-CAD (Computer Aided Drafting) modeling software. Students compile all of their projects to date into a professional portfolio for college application. A resume is also generated for after-school employment and job shadowing opportunities. Guest speakers come into the classroom and field trips are taken to project sites to provide "real-life experiences" for the students. This course is a prerequisite for Drafting: Advanced Architectural Drafting and Design 4.

Adv Arch Draft & Design 4

Course Credits Suggested Grade Level 12
Y821 1 Prerequisites: Adv Arch Draft & Design 3 with a grade of C+ or better.

This is an advanced weighted course. This course is to help Architectural Drafting and Design students strengthen and deepen their learning through community and project-based instruction to prepare for post-graduation employment and/or college. Students will investigate architectural, landscape architecture, architectural engineering and engineering pathways. Students will understand the path required to becoming a Registered Architect and Professional Engineer. Students will update their portfolio and resume, generate a cover letter, and learn interviewing skills. Students learn to apply "Art" to their projects, such as watercolors to a house design. Students will also have the opportunity to expand and/or improve on projects they did in the previous architectural classes.

Aspiring Educators (AspireEd)

The Aspiring Educator Program provides a foundational understanding of the teaching profession, offering a comprehensive introduction to the field of education and its diverse components. It is designed to equip aspiring educators with the knowledge and insights necessary to embark on a successful career in education. Topics include the general theory and practice of learning and teaching, the basic principles of educational psychology, the art of teaching, the planning and administration of educational activities, school safety and health issues, and the social foundations of education.

Aspiring Educators Courses

AspireEd Intro (Y841)
AspireEd Class Mgt (Y842)
AspireEd Human Devlp (Y843)
AspireEd Prof Ethics (Y844)
CWE AspireEd (Y845)

*Courses are listed in the sequential order that they should be completed in each column with introductory courses listed at the top moving downward to more advanced courses.

Aspiring Educators

AspireEd Intro

Course	Credits	Suggested Grade Level
Y841	1	10-11

Prerequisites:

This introductory course provides a foundational understanding of the field of education and its diverse components. This course equips aspiring educators with the knowledge and insights necessary to embark on a successful career in education. Participants will explore the historical, philosophical, and sociological aspects of education, gaining an appreciation for the role of educators in society.

AspireEd Class Mgt

Course	Credits	Suggested Grade Level
Y842	1	11-12

Prerequisites: AspiringEd Intro

This course is designed to guide future educators through the concepts of curriculum development, lesson planning, instructional design, classroom management, and student engagement techniques. It emphasizes the importance of thoughtful preparation in delivering effective instruction. Participants will learn how to align their teaching objectives with appropriate assessment methods, curriculum standards, instructional materials, and classroom activities.

AspireEd Human Devlp

Course	Credits	Suggested Grade Level
Y843	1	11-12

Prerequisites: AspiringEd Intro

This course will introduce students to the various stages of human growth and development while learning how individuals evolve from infancy to adulthood. Students also explore the physical, cognitive, social, and emotional aspects of learning while gaining insights into theories and research related to education.

Coming 2025-26

AspireEd Prof Ethics

Course	Credits	Suggested Grade Level
Y844	1	11-12

Prerequisites: AspiringEd Intro

This course will introduce students to the professional, ethical, and cultural responsibilities of teachers. Students will investigate diverse cultural backgrounds and learn strategies to create inclusive, equitable, and culturally responsive learning environments to support the unique needs of all students, including those with disabilities. Students will also examine the ethical responsibilities, values, and expectations that guide educators to make sound ethical decisions and develop the skills needed to continuously improve and adapt.

Coming 2025-26

CWE AspireEd

Course	Credits	Suggested Grade Level
Y845	.5 to 2	12

Prerequisites: AspiringEd Intro and two additional AspiringEd courses

The Career Work Experience (CWE) Course is only available to seniors who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows graduating seniors to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

Coming 2025-26

There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, Center Assistant/Tutor, and Independent Research. Each year the instructor will announce these opportunities to 10th and 11th grade students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Automotive Technology

Automotive Technology students prepare to service and maintain all types of automobiles and light trucks. The course work also emphasizes the development of skills in diagnostic and test procedures. Students learn how to perform four-wheel alignments, steering and suspension service, brake service, electronic fuel injection and computer operated control systems. Live work will occur on both school and customer cars. Automotive Technology classes meet every day for a single block for the whole year. Graduates are highly qualified to enter the automotive field as entry-level service technicians. Students who pursue advanced technical training at the post-secondary level will find an array of opportunities in service, management, and entrepreneurship. To apply their classroom knowledge and skills, Automotive students operate Little Lion Auto Care.

Automotive Technology Courses

Auto Tech 1 (Y640)
Auto Tech 2 (Y641)
Auto Tech 3 (Y643)
Adv Auto Tech 4 (Y644)
CWE Auto Tech (Y645)

Auto Technology

Auto Tech 1



Course	Credits
Y640	2

Suggested Grade Level 9-10
Prerequisites:

This two-credit course meets everyday for the entire year and provides an introduction to the automobile and a history of the automotive industry. The following topics are covered: tool identification, use and safety; teamwork training; an introduction to automotive service; exploration of careers within the automotive industry; tire service and computerized wheel balancing; introduction to Automotive Service Excellence (ASE); and workplace safety and auto-shop housekeeping, Steering and suspension, two and four wheel alignment, and brakes. Students are required to wear safety glasses, steel-toed leather boots, and the standard Automotive Technology uniform.

Auto Tech 2



Course	Credits
Y641	2

Suggested Grade Level 10-11
Prerequisites: Automotive Technology 1

This two-credit course meets everyday for the entire year and covers automotive systems, study of the design and function of cooling systems, electrical systems, starting, charging, exhaust/ emissions systems, engine rebuild and engine precision measurements. Students are introduced to Automotive computer system diagnostics, engine performance and electrical circuits and meters. Preparation for Automotive Service Excellence (ASE) certification tests and an introduction to Pennsylvania inspection code are provided. Students learn how to find and use printed and computerized technical service information. Students are required to wear safety glasses, steel-toed leather boots, and the standard Automotive Technology uniform.

Auto Tech 3



Course	Credits
Y643	2

Suggested Grade Level 11-12
Prerequisites: Automotive Technology 2

This two-credit course meets everyday for the entire year. The following topics are taught: HVAC, Automatic transmissions, Manual Transmissions, electrical system diagnosis, basics of on-board computer systems, computer trouble code diagnosis, instruction and use of engine diagnostic analyzer, On Board Diagnostics II (OBD II), service shop management, automotive forms and record keeping, conflict resolution and workplace safety. Students will have the opportunity to receive their PA Inspection license, PA Emissions license, and A/C Certification in class. Students are required to wear safety glasses, steel-toed leather boots, and the standard Automotive Technology uniform.

Adv Auto Tech 4



Course	Credits
Y644	2

Suggested Grade Level 12
Prerequisites: Automotive Technology 3

This two-credit course meets everyday for the entire year. Students will briefly review information from Automotive Technology 1,2, and 3 but spend most of their time studying concepts of diesel engines, hybrid vehicles and advanced diagnostics. This course will offer the opportunity to test in-house for the following industry certifications: MACS mobile air conditioning, Pennsylvania State Vehicle Inspection, and Pennsylvania Vehicle Emissions. Students must have a valid PA driver's license at time of testing to be eligible for PA Inspection and PA Emissions certifications. This course will also help prepare students who plan to take ASE certification tests. Students are required to wear safety glasses, steel-toed leather boots, and the standard Automotive Technology uniform.

Auto Technology

CWE Auto Tech



Course	Credits
Y645	.5 - 2

Suggested Grade Level 12

Prerequisites: This course is only available to students who are enrolled as a secondary concentrator of the CTC Program and have prior approval through the instructor.

The Career Work Experience (CWE) Course is only available to seniors who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows graduating seniors to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, and Independent Research. Each year the instructor will announce these opportunities to 11th grade students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid	Y- Year-Long
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Building Construction

Building Construction prepares students for post-secondary technical training and/or entry-level employment in residential and light commercial construction, construction management, architectural, and engineering fields. Completing this program also provides a great foundation for motivated students to pursue a 4-year college degree in Construction Management or related study. Enhancing their learning experience through student membership in the National Association of Home Builders, students participate in competitions, professional networks, conferences, industry exhibits and service learning projects.

Building Construction Courses

Building Construction Tech 1 (Y775)
Building Construction Tech 2 (Y651)
Adv Building Construction Tech 3 (Y652)
Adv Building Construction Tech 4 (Y654)
CWE Building Construction (Y655)

Building Construction

Bldg Const Tech 1

Course	Credits	Suggested Grade Level
Y775	1	9-10

Prerequisites:

This one credit elective course is designed to introduce students to the various aspects of construction and explore construction related professions. Students gain knowledge and experience with building materials, tools, and equipment. Constructing a home from start to finish is the primary focus as students flow through this investigative learning process. Topics of study include construction safety, tools and heavy equipment, building layout, site preparation, and construction process. Hands-on lab exercises, field trips, National Association of Homebuilders (NAHB) curriculum, and visionary thought processes are the teaching mediums. Students construct a small shed/cabin as the culminating project. Offering a well-rounded curriculum this course is also connected to a wide spectrum of engineering, architecture, and mechanical related career fields.

Bldg Const Tech 2

Course	Credits	Suggested Grade Level
Y651	1	10-11

Prerequisites: Building Const Tech 1

This one credit elective course is a continued exploration of construction and related professions. Students further their knowledge and experience with building materials, tools, and equipment as they learn how a house is built from the ground up. Topics of study include building plans and blueprints, structural foundation, concrete, framing and mechanical building systems. Students have the opportunity to operate advanced tools and technology while completing hands-on activities and projects.

Adv Bldg Const Tech 3

Course	Credits	Suggested Grade Level
Y652	2	11-12

Prerequisites: Bldg Const Tech 2

This 2 credit CTE course reinforces and builds on the advanced phases of home construction. Topics of study include exterior finishing, roofing, windows, insulation, electric, plumbing, and HVAC. Students spend a majority of the class performing hands on tasks, lab activities, and on site projects. There is a continuous emphasis on safety, construction techniques, and proper use of tools and equipment. At this level construction management, leadership roles, and professional careers are also investigated.

Adv Bldg Const Tech 4

Course	Credits	Suggested Grade Level
Y654	2	12

Prerequisites: Adv Bldg Const Tech 3

This 2 credit CTE course ties all previous levels and content together and focuses on the final phases of home construction. Topics of study include interior finishing, drywall, doors, cabinetry, flooring, painting, trim, and home completion. Students spend a majority of the class performing hands on tasks, lab activities, and on site projects. There is a continuous emphasis on safety, construction techniques, and proper use of tools and equipment. At this level construction management, leadership roles, and professional careers are also investigated.

Building Construction

CWE Bldg Constr

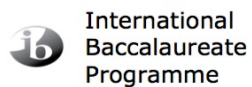
Course	Credits
Y655	.5 to 2

Suggested Grade Level 12

Prerequisites: This course is only available to students who are enrolled as a secondary concentrator of the CTC Program and have prior approval through the instructor.

The Career Work Experience (CWE) Course is only available to seniors who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows graduating seniors to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, and Independent Research. Each year the instructor will announce these opportunities to 11th grade students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.



CTC Course



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Alternating Year Course

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Business Management

Accounting & Finance Courses

Accounting & Finance students learn the basic principles of the accounting cycle, which includes analyzing transactions, journalizing, preparing closing entries, generating a trial balance, and preparing financial statements. Students will also gain an understanding of stocks, bonds, and other tradable instruments, and the markets in which they are traded. Understanding keys to decision making, whether it be financial, corporate, or personal will be fundamental to the program. Participation in FBLA will further develop skills in communication and business.

Exploring Business (S601) Personal Finance (S607) Business Law 1 (S608) Business Law 2/Ethics (S598)	Adv Accounting 1 (Y603) Adv Accounting 2 (Y610) Adv Accounting 3 (V611)	Stocks & Investments 1 (S770) Adv Stocks & Investments 2 - Little Lion Fund (Y632)
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*Courses are listed in the sequential order that they should be completed in each column with introductory courses listed at the top moving downward to more advanced courses.

Management & Logistics Courses

Management & Supply Chain logistics are key foundations crucial to any company's success and profitability. Students will attain fundamental skills needed to succeed in post-secondary institution in a business-related field. The scope and perspective of these courses is designed for students to transition to a Management or Supply Chain major. Procurement, outsourcing, warehousing, and transportation are just a few of the topics that will be covered. Extracurricular leadership and competitive opportunities are available through participation in DECA, Future Business Leaders of America (FBLA).

Hospitality Management (S760) Retail Management (S741) Roar Store Entrepren (S744) Leadership in Business (S737)	Supply Chain 1 (S774) Supply Chain 2 (S778) Supply Chain 3 (S840)
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*Courses are listed in the sequential order that they should be completed in each column with introductory courses listed at the top moving downward to more advanced courses.

Marketing Courses

Marketing students learn that marketing products or services is the fundamental objective of any business. Marketing is the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods and services to create exchanges that satisfy individual and organizational goals. Students learn the “process” of marketing, designed to change behaviors or influence ideas. These activities include, but are not limited to advertising, marketing research, product design, supply chain, and selling. The Roar Store provides real-world learning lab for developing skills, while DECA provides competitive, leadership and networking opportunities.

Marketing Essentials (S740) Social Media Marketing (S736) Marketing Essentials 2 (S748)	Sales (S745) Ent & Sports Mktg 1 (S742) Ent & Sports Mktg 2 (S739)
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*Courses are listed in the sequential order that they should be completed in each column with introductory courses listed at the top moving downward to more advanced courses.

Business Mgt - Accounting and Finance

Expl Business

Course	Credits
S601	.5

Suggested Grade Level 9-10
Prerequisites:

Students will explore areas of business including marketing, business law, economics, personal finance, accounting, supply chain management, leadership, business communications and etiquette in a laboratory setting. Students engage themselves in interactive multimedia, oral presentations, and case studies. The primary goal of the course is to help students develop an interest in business and decide what area best fits their career aspirations. This is the recommended first business class for students to take. After taking this course, students will have a better idea of which business classes they would like to take next.

Personal Finance

Course	Credits
S607	.5

Suggested Grade Level 9-12
Prerequisites:

In this course, students build a foundation of personal finance skills for business and personal success. Units of study include: Career Decisions, Money Management, Financial Security, Credit Management, Resource Management, Risk Management and Consumer Rights and Responsibilities. Some of the topics include: investments; budgets and financial records; insurance; taxes; checking accounts and other banking services; decision making regarding renting and buying and maintaining a vehicle. Activities may include guest speakers, videos and field trips. There will be a \$25 fee for the H/R Block Budget Challenge that is a component of the course.

Business Law 1

Course	Credits
S608	.5

Suggested Grade Level 10-12
Prerequisites:

This course is designed to help students understand law both personal and business legal rights and duties. If you like debating, this class is for you. Topics of study include our legal system, court procedures, torts, contracts, employment and how our rights line up with our constitution.

Students will conduct a mock trial using correct courtroom procedure. Supplemental activities include field trips, guest speakers and videos. Any student interested in law, law enforcement, protective services, business or political science should consider this course.

Business Law 2/Ethics

Course	Credits
S598	.5

Suggested Grade Level 10-12
Prerequisites: Business Law 1

Ethics is defined as moral principles that govern a person's behavior or the conducting of an activity. Companies practice or neglect ethical behavior on a daily basis. This course introduces topics such as applying moral philosophies to Business Ethics, politics, culture as a factor within ethics, social responsibility, moral dilemmas, social and media, and ethical standards within the business community. If you like debating, this class is a must. A main consideration of the course is to encourage good decision making by the students as they consider their future careers and decisions they make.

Adv Accounting 1

Course	Credits
Y603	1

Suggested Grade Level 9-12
Prerequisites:

Advanced Accounting 1 is recommended for all students planning to major in Business Administration in college, and any student with an interest in exploring the business world. This course provides an opportunity for students to prepare for college accounting as well as to learn basic principles of accounting. Students apply general mathematical calculations to accounting transactions. The students are provided with experiences in planning, gathering, analyzing and interpreting financial data. Automated accounting systems and spreadsheet software are incorporated into the daily routine of this class.

Business Mgt - Accounting and Finance

Adv Accounting 2

Course	Credits	Suggested Grade Level
Y610	1	10-12

Prerequisites: Advanced Accounting 1

Advanced Accounting 2 prepares students for college level coursework in Accounting, a requirement for all Business majors. It will further develop the accounting cycle: recording, summarizing, interpreting financial data for corporations, which includes long-term liabilities, plant assets and inventory, cash flow, and financial statement analysis. This course also includes work toward the MOS Excel Specialist certification.

Adv Accounting 3

Course	Credits	Suggested Grade Level
V611	.5	12

Prerequisites: Advanced Accounting 2

This semester-long course is a continuation of Advanced Accounting 2 and designed to further prepare students for college level coursework in Accounting while focusing on managerial and manufacturing concepts and principles. Students will choose individualized study topics and work with the instructor to set and achieve goals related to those topics. Past topics have included Excel Expert Certification, Managerial Accounting (Manufacturing/Job-Cost Accounting and Cost-Volume-Profit Analysis), Pennsylvania Institute of Certified Public Accountants (PICPA) - Introduction to Financial Accounting course, and advanced topics in Financial Accounting.

Stocks & Inv 1

Course	Credits	Suggested Grade Level
S770	.5	10-12

Prerequisites:

Stocks and Investments 1 provides an insight into various types of financial assets, with a focus on stocks. Students first develop a basic understanding of stocks, markets, and indexes. Focus is next on decision making and stock valuation using fundamental analysis techniques, both qualitative and quantitative methods. Using an on-line trading simulation, students invest in stocks listed on the New York Stock Exchange and the NASDAQ. Students work individually and in groups to research stocks and enter trades on the simulation.

Adv Stocks & Inv 2/LL Fund

Course	Credits	Suggested Grade Level
Y632	1	10-12

Prerequisites: Stocks & Investments 1, Adv Accounting 1

Stocks & Investments 2 manages a live investment fund called the "Little Lion Fund." Students assume positions in the class such as Stock Analyst, Sector Manager, Economist, Accountant, and more. Students will learn advanced concepts related to fundamental and technical analysis of stocks, valuation and trading. Decision making will be emphasized using time value of money and portfolio allocation concepts. Course enrollment is limited. Students may need to apply via a selection interview with a committee.

Business Mgt - Management & Logistics

Hospitality Mgmt

Course	Credits	Suggested Grade Level
S760	.5	9-12

Prerequisites:

Embark on a dynamic exploration of marketing and culinary careers in the hospitality industry with our Hospitality Management course. This engaging program focuses on the four key sectors of lodging, food and beverage, travel and tourism, and event management. Students will utilize DECA case studies to apply what they are learning in the course, offering practical applications in marketing and hospitality. Additionally, students will use a virtual software program to manage their own hotel.

Retail Management

Course	Credits	Suggested Grade Level
S741	.5	9-11

Prerequisites:

Transform your learning experience with our Retail Management course, leveraging the school store, the Roar Store, as a dynamic learning lab. This program equips students with the skills to manage and operate a retail business. Dive into the essentials of retail management, covering business ownership models, legal processes, and practical applications of DECA case studies in marketing and business management. Students will also use an online simulation to explore the various facets of starting a business, including the crucial task of writing a business plan.

Roar Store Entpren

Course	Credits	Suggested Grade Level
S744	.5	10-12

Prerequisites: Retail Management

In this course, students take charge of the "Roar Store" school-based enterprise, actively managing, promoting, and operating it. Students will select a manager position for the semester, including roles in accounting, buying and receiving, promotions, human resources, and more. This project-centric class offers practical experience and may be taken more than once! Students must register for each semester separately.

Leadership in Business

Course	Credits	Suggested Grade Level
S737	.5	10-12

Prerequisites:

In this course, students explore management principles and leadership styles through seminars, guest speakers, and hands-on projects, including DECA case studies. Students interested in joining the course must be registered DECA members to participate fully in the dynamic learning experiences, including DECA campaigns, community service event planning, live sales pitch competitions, and other activities integrated into the curriculum. This requirement ensures that students can maximize their engagement with the resources and opportunities provided by DECA to enhance their leadership and business skills within the course. Students must submit an application, undergo an interview, and submit a letter of recommendation from a CTC teacher in order to be considered for this course.

Supply Chain Mgmt 1

Course	Credits	Suggested Grade Level
S774	.5	9-12

Prerequisites:

In this class students explore the many different areas of Supply Chain Management and how the field impacts the way products and people interact. In this course, students will learn why supply chain is the heart of business and how to be successful in the field. The course has many opportunities to connect with Penn State's Supply Chain program. The students will take field trips to various businesses to explore the world of supply chain.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
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Business Mgt - Management & Logistics

Supply Chain Mgmt 2

Course	Credits
S778	.5

Suggested Grade Level 10-12
Prerequisites: Supply Chain Management 1

Supply Chain Management 2 is designed for those students who have successfully completed Supply Chain Management 1. In this course, we will focus primarily on the relationship supply chain has on consumer fulfillment operations. This course will be project and case-study based. A 1 day job shadow in supply chain will be required in order to complete the class. Teacher will coordinate the shadow. Students will also have the opportunity to participate in many supply chain related field trips.

Supply Chain Mgmt 3

Course	Credits
S840	.5

Suggested Grade Level 11-12
Prerequisites: Supply Chain Management 2

Supply Chain Management 3 is designed to build on topic areas of Supply Chain Management 1 and 2. In the course, the students will work with other students on a research project with various employers. The course can address the following areas: Forecasting, Procurement, Manufacturing, Distribution and Warehousing. The course culminates with a project that challenges students to analyze a real world problem by companies and present their findings and recommendations. Students will be required to complete an application and interview with a committee.

Business Mgt - Marketing

Marketing Essentials

Course Credits Suggested Grade Level 9-12
S740 .5 Prerequisites:

Students will be introduced to the field of marketing and marketing careers. Marketing is the process of developing, promoting and distributing products to satisfy customer needs and wants. As a class project, the students will form companies and develop a marketing plan using the five “P’s” to promote a specific product. Activities may include field trips, guest speakers, and media analysis and project presentation to local business owners/managers.

Social Media Mktg

Course Credits Suggested Grade Level 9-12
S736 .5 Prerequisites:

In this course, students will master the art of leveraging various social media platforms for business success. Key topics encompass integrating diverse social media technologies into comprehensive marketing plans, crafting effective social media marketing campaigns, and utilizing appropriate social media tools. An exciting aspect of the course involves students actively managing their own social media marketing campaign through an immersive online simulation. In this class, cell phones will serve as essential tools for creating a variety of social media content, including photos, videos, and more!

Sales

Course Credits Suggested Grade Level 9-12
S745 .5 Prerequisites:

Immerse yourself in the practical aspects of effective communication, sales techniques, and personal branding for a comprehensive and rewarding learning experience. Exploring critical aspects like the seven selling steps, personal sales, essential success skills, and the nuances of effective communication, students actively participate in classroom theory and hands-on projects. An exciting highlight is the chance for students to apply their learning in real sales pitch competitions, with opportunities to win monetary prizes. Additionally, students will cultivate essential skills for effectively presenting themselves in a professional setting, encompassing job interviews, resume construction, and other vital aspects of personal and career development.

Ent & Sports Mktg 1

Course Credits Suggested Grade Level 9-12
S742 .5 Prerequisites:

Marketing is the tool that has allowed the United States Economy to be one of the most successful in the world and Entertainment and Sports Marketing are important parts of our modern economy. In fact, entertainment is one of the largest exports from the U.S. to the rest of the world. Students will take a journey through the world of marketing and learn how the marketing functions are applied to sports and entertainment in this course. While exploring careers in entertainment and sports marketing, students will engage in hands-on activities and projects, participate in field trips and interact in sessions with guest speakers.

Ent & Sports Mktg 2

Course Credits Suggested Grade Level 10-12
S739 .5 Prerequisites: Entertainment and Sports Marketing 1

Entertainment and Sports Marketing 2 focuses on the creation of an entertainment and sports marketing plan. Students will also conduct market research in preparation of the marketing plan. Case studies, guest speakers, field trips and seminars will be used as well as group projects are included along with internship opportunities.

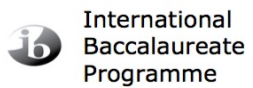
Business Mgt - Marketing

Marketing Essentials 2

Course Credits
S748 .5

Suggested Grade Level 10-12
Prerequisites: Marketing Essentials

In this course, students will explore the realms of media advertising and visual merchandising as crucial components of marketing promotion. The curriculum emphasizes the development, creation, and design of advertisements and visual displays tailored to the retail environment. Students will engage in collaborative group projects, tasked with planning and executing professional displays and designing various media advertisements. Additionally, students will have the exciting opportunity to apply their skills to the Roar Store's t-shirt printing business, where they will learn and operate a complete t-shirt printing business.



CTC Course



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Computer Programming

Computer science develops students' computational and critical thinking skills and shows them how to create, not simply use, new technologies. This fundamental knowledge is needed to prepare students for the 21st century, regardless of their ultimate field of study or occupation. Students who participate in computer programming can earn college credit, industry certifications as well as prepare students for post secondary education.

Computer Programming Courses

AP Computer Science Principles (Y825)
Adv Computer Programming 1 (Y811)
Adv Computer Programming 2 (Y818)
Adv SQL (Y836) Offered 2023/24
Adv Comp Network & Cybersec (Y705) Offered 2024/25
AP Comp Sci (Y366) Mathematics Dept

*Courses are listed in the sequential order that they should be completed with introductory courses listed at the top moving downward to more advanced courses.

Computer Programming

AP Comp Sci Principles

Course	Credits	Suggested Grade Level
Y825	1	9-12

Prerequisites: Algebra 1

This course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Students are encouraged to use this course as preparation for the AP Computer Sciences Principles Exam.

Adv Computer Programming 1

Course	Credits	Suggested Grade Level
Y811	1	9-12

Prerequisites:

This course teaches the basics of programming in several languages such as C++ and Python, as well as the fundamental concepts and techniques used in object-oriented programming. The course begins with the universal basics, without relying on object concepts, and gradually extending to advanced concepts that are encountered using the objective approach. Students who successfully complete the course are encouraged to take the C++ Certified Associate Programmer certification.

Adv Computer Programming 2

Course	Credits	Suggested Grade Level
Y818	1	10-12

Prerequisites: Adv Computer Programming 1

This course will familiarize the student with the programming template mechanism, reading and understanding definitions of template functions and classes, using property template classes and methods including third party templates, creating template functions and classes, the STL library including the I/O part, and solving common programming problems with predefined STL classes and methods. This course aligns to the C++ Institute CPP – C++ Certified Professional Programmer certification.

Adv SQL

Course	Credits	Suggested Grade Level
Y836	1	10-12

Prerequisites: AP Comp Sci Principles or Adv Prog ESS in C++

This course engages students to analyze complex business scenarios and create a data model—a conceptual representation of an organization's information. Participants implement their database design by creating databases using SQL. Basic SQL syntax and the rules for constructing valid SQL statements are reviewed. This course culminates with a project that challenges students to design, implement, and demonstrate a database solution for a business or organization.

Adv Comp Network & Cybersec

Course	Credits	Suggested Grade Level
Y705	1	10-12

Prerequisites: AP Computer Science Principles or Adv Computer Programming 1

Advanced Computer Networking and Cybersecurity provides students with a broad understanding and experience working with the fundamentals of networking, IP services, security, automation, and programming. The course focuses on how networks operate (LANs, WANs, IP address Schemes, etc), managing and configuring network devices and infrastructure (routers, switches, and end devices), configuring and troubleshooting connectivity, access control and cybersecurity, cryptography, and software essentials/concepts relevant to network programmability. Designed for a comprehensive overview and versatility, this course exposes students to the skills, techniques, occupations related to managing and protecting a variety of computer networks.



CTC Course



NCAA



Keystone



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Computer Programming

AP Comp Sci



Course Credits
Y366 1

Suggested Grade Level 11-12

Prerequisites: Advanced Algebra 2 with completion of a CTC Computer Programming course OR completion of Advanced Precalculus.

AP Computer Science is offered through the mathematics department and is a full-year programming course using the Java language. It is a college-level course for which many universities grant advanced placement credit dependent on the results of an AP Exam given in May. The course will begin with an introduction to Java syntax and style conventions and basic programming constructs such as data types, variables, control statements, iteration, and recursion. Well known algorithms will be applied to solve problems, especially when working with structures like Strings and Arrays. Object Oriented Programming Design will be employed throughout the course. The use of classes, hierarchies, and interfaces will be fundamental. Searching and sorting algorithms and their efficiencies will be discussed. At the end of the course, students will explore components that make programs more viable. Topics include streams and files, graphics, GUI components, mouse, keyboard, sound, and images. A culminating final project will give students the opportunity to showcase learned skills and concepts and to research new skills to create and present a program of their choice. Students receive mathematics credit for this course.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid	Y- Year-Long
S- Semester	B- Before School
V- Virtual	I- IB Programme

Culinary Arts

Culinary Arts students will be prepared for entry-level positions in the hospitality and/or food service industry, as well as entrance into post-secondary schools of culinary arts and restaurant management. Students gain basic and advanced culinary knowledge and skills in the areas of food and equipment safety, legal guidelines of sanitation, recipe analysis and quantity food preparation.

The 2-year program will prepare students for entry into the workforce as an entry-level cook or in the food preparation industry. The 4-year program will better help a student prepare for post-secondary education in the culinary arts.

Culinary Arts Courses

Baking 101 (S251)
Culinary Arts 1 (Y680)
Culinary Arts 2 (Y681)
Culinary Arts 3 (Y682)
Culinary Arts 4 (Y686)
CWE Culinary Arts (Y683)

* See Business Management & Logistics for Hospitality Management

**See Family & Consumer Sciences for other food courses

Culinary Arts

Baking 101

Course	Credits
S251	.5

Suggested Grade Level 9-12

Prerequisites:

Everything you want and need to know about baking delicious cakes, pastry, cookies and breads. This course requires no previous experience. Baking several times a week ensures that you will know all the basics to move on to more advanced bakery products. Highlights include friendly competition bake-offs, construction of a Gingerbread house, and a final Baker's Showcase.

Culinary Arts 1

Course	Credits
Y680	1

Suggested Grade Level 9

Prerequisites:

In this one credit elective course, students will begin exploring the culinary field. This course provides an introduction to careers opportunities in the foodservice industry with field trips, guest speakers, and research. Students are introduced to safety in the commercial kitchen, sanitation, the use and care of hand tools, knives, and small equipment, culinary math and recipe quantification, hands-on food preparation, special events, basic nutrition, and menu planning. Lesson modules include stocks, soups, and sauces, fruits and vegetables, introduction to baking and pastry, pasta and grains, and regional American cuisine. Slip resistant shoes are required for hands-on kitchen labs. Additional information will be provided.

Culinary Arts 2

Course	Credits
Y681	1

Suggested Grade Level 10-11

Prerequisites: Culinary Arts 1

In this one credit elective course, students will continue exploring the culinary field, career opportunities, a variety of ingredients, cuisines, and cooking methods. Lesson modules include sandwiches and salads, breakfast cookery, quick breads, cookies and bars, frozen desserts, appetizers and dips, grilling, and an introduction to International cuisine. Slip resistant shoes are required for hands-on kitchen labs. Additional information will be provided.

Culinary Arts 3

Course	Credits
Y682	2

Suggested Grade Level 11-12

Prerequisites: Culinary Arts 2 or Teacher Approval

This is a full-year, two-credit CTE course designed for students pursuing a career in the culinary, hospitality, or foodservice industry. Course curriculum is based on the National Restaurant Association's ProStart® program; ProStart® unites the foodservice industry and the classroom to teach high school students culinary skills and restaurant management principles, as well as employability skills such as communication, teamwork, professionalism and time management. Students are required to wear uniforms and slip resistant shoes. An additional uniform / program fee applies (financial support is available).

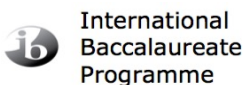
Culinary Arts 4

Course	Credits
Y686	2

Suggested Grade Level 12

Prerequisites: Culinary Arts 3

In this full-year, two-credit CTE course students have the opportunity to earn their ServSafe Food Safety and Sanitation Manager certification and the ProStart® National Certificate of Achievement which provides opportunities for scholarships and post-secondary education credits through dozens of national articulation agreements. Students also take the NOCTI exam (written and practical) and can earn their Certified Fundamentals Cook credential through the American Culinary Federation. Coursework includes protein fabrication and cooking, intermediate baking and pastry including laminated doughs and frozen desserts, catering operations, garde manger, front of house operations, nutrition, menu development, costing, forecasting, inventory control. Students are required to wear uniforms and slip resistant shoes. Additional testing and certification fees may apply (financial support is available).



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Culinary Arts

CWE Culinary Arts



Course Credits
Y683 .5 to 2

Suggested Grade Level 12

Prerequisites: This course is only available to students who are enrolled as a secondary concentrator of the CTC Program and have prior approval through the instructor.

The Career Work Experience (CWE) Course is only available to seniors who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows graduating seniors to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, and Independent Research. Each year the instructor will announce these opportunities to 11th grade students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Early Childhood Education

Early Childhood Education students will learn to work with children in preparation for many careers. From early childhood teaching to early intervention, the public sector to private enterprises, students explore a variety of possibilities in a career objective that includes children. This is an interactive program in which students participate in a supervised preschool experience called “The Little Lions’ Playroom.” The content of each course includes basic child development; furnishing a safe, healthy, learning environment for children; nurturing children; and learning about career options in early childhood education. Seniors can experience the daily routine in an elementary school classroom setting through “Exploration in Education” or explore early childhood centers or agencies through a cooperative work experience. High school students who enroll in this course will be working with young children. Students enrolled in the ECE program will have the opportunity to earn industry certifications in fire safety training, mandated reporter training, and AED/CPR.

Early Childhood Education Courses

Understanding Young Children (S264)
Early Childhood Education 1 (Y663)
Early Childhood Education 2 (Y665)
CWE Child Care (Y671)

Early Childhood Education

Uychildren

Course	Credits	Suggested Grade Level
S264	.5	9-10

Prerequisites:

Understanding Young Children is a course that combines child development and parenting. Through the use of simulations such as the Real Care Infants, and actual preschool experience in the Playroom program, students observe and participate in many interactions. Learning to communicate with young children and respond in positive, supportive ways to their needs is stressed throughout the course. Students enhance the play and learning of the young child through planning and leading activities in art, music, literature, foods, games, science, math and crafts. High school students who enroll in this course will be working with young children.

Early Child Ed 1



Course	Credits	Suggested Grade Level
Y663	2	10-11

Prerequisites: Understanding Young Children

Early Childhood Education 1 is the first level of the Early Childhood Education Program of Study. It is the basis for working with children as an Early Childhood professional. This course lays the foundation of development for infants, toddlers and preschool age children. Learning about development through real experiences is interesting and fun. Students participate in the Little Lions' Playroom Preschool and learn to enhance the play experiences of our children. Games, outdoor play and field trips are explored as well as dramatic play, foods, nutrition and cooking activities. Many early childhood programs in the area will be visited for observation. Students enrolled in the ECE program will have the opportunity to earn industry certifications in fire safety training and mandated reporter training.

Early Child Ed 2



Course	Credits	Suggested Grade Level
Y665	2	11-12

Prerequisites: Early Childhood Education 1

Early Childhood Education 2 focuses on early learning. Students explore the many learning centers in an early childhood center. Students participate in the Little Lions' Playroom program and learn to enhance the expression of creativity in young children. Many expressive areas are highlighted including art, music, rhythm, movement, puppetry and dramatic play. Children's books, storytelling, songs and finger play are other areas that are emphasized. Many early childhood programs in the area will be visited for observation. This course assists students in career planning. A portfolio is assembled which highlights the student's personal qualities and guides him/her in future professional endeavors. Students enrolled in the ECE program will have the opportunity to earn industry certifications in fire safety training, mandated reporter training, and AED/CPR.

CWE Child Care



Course	Credits	Suggested Grade Level
Y671	.5 to 2	12

Prerequisites: This course is only available to students who are enrolled as a secondary concentrator of the CTC Program and have prior approval through the instructor.

The Career Work Experience (CWE) Course is only available to seniors who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows graduating seniors to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, and Independent Research. Each year the instructor will announce these opportunities to 11th grade students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Engineering

Engineering study provides preparation for 4-year bachelor's programs and careers in mechanical, electrical, and industrial engineering, as well as 2-year associate's degree programs in engineering technology and careers in electrical, mechanical, and industrial engineering. Students learn to use common engineering tools and work in teams to solve problems. Competitive extracurricular opportunities are available through participation in the Technology Student Association (TSA)

Engineering Courses

Exploring Engineering (S710)
Adv Engineering Systems (Y714)
Robotics Engineering (Y783)
Adv Engineering Tech/Adv. Physics 1 (Y479) (*Schedule/Transcript will reflect Y463 & Y716)

*Courses are listed in the sequential order that they should be completed with introductory courses listed at the top moving downward to more advanced courses.

Engineering

Expl Engineering

Course	Credits
S710	.5

Suggested Grade Level 9-10
Prerequisites: A strong math background is required to be successful in this course.

This course introduces the student to the many different career opportunities in the field of engineering. Units covered include measurements, individual and group problem solving, 3D modeling and printing and product dissection. Field trips and guest speakers will allow the students to experience direct connections to the workplace. Science, Technology, Engineering and Mathematics (STEM) concepts are emphasized in class. Evaluation will be based on quizzes, tests, labs and projects.

This course is designed to be a prerequisite for other Engineering courses as well as Architectural and Drafting 2. It includes architectural content including: career opportunities, lettering and drawing like an architect, and interpreting architectural drawings. This course is considered a substitution for Architectural and Drafting 1.

Adv Engineering Systems

Course	Credits
Y714	1

Suggested Grade Level 10-12
Prerequisites: CP Algebra 1 or higher

Advanced Engineering Technology and Systems provides an in-depth overview of the important Science, Technology, Engineering, and Mathematics (STEM) concepts related to the principles of engineering. It provides a broad range of topics including: mechanisms, materials, structures, automation, motion, thermal and fluid sciences, electrical and electronic circuit operation, microprocessors, computer-aided drafting and design, statistical analysis, and quality control. You will work like an engineer to apply an engineering design process to solve challenging problems, document your solutions, and communicate your work, while designing, building, and programming systems, machines, and products. Instructional methods will include individual and group instruction, demonstrations, labs, videos, worksheets and projects. Assessment will be through written tests, lab reports, worksheets and project evaluations.

Robotics Engineering

Course	Credits
Y783	1

Suggested Grade Level 11-12
Prerequisites: CP Geometry or higher

The Robotics Engineering course is a full year class for students who want to learn what robots do and how to use them. Students will learn the theory and practice of different robotic devices such as CNC machines, 3D printers, laser engravers, and autonomous robots using C language based programs. An integrated approach to Science, Technology, Engineering and Robotics (STEM) is emphasized in class. A three prong approach is used to teach robotics via programming, mechanics and electronics. Evaluation is through written tests, projects, labs and design challenges.

Adv Engr Tech & Adv Physics 1

Course	Credits
Y479	2

Suggested Grade Level 11-12
Prerequisites: Successful completion of two science courses (i.e. Earth Systems Science 1 or Advanced Earth Systems Science 1; Biology 1 or Advanced Biology 1; Chemistry 1 or Advanced Chemistry 1; Environmental Science 1) Completion of CP Algebra 2. Concurrent enrollment in Precalculus or AP Calculus.

This nested set of courses is designed for the student seriously considering a career in engineering or a related technical field. Advanced Physics 1 and Advanced Engineering Technology are scheduled back-to-back (in consecutive blocks) allowing for project work and integration of physics into engineering applications. The student will receive 1 credit and a separate weighted grade for each section of the course. Physics concepts will be algebra-based and include linear and projectile kinematics, dynamics, momentum, energy, wave theory, sound, electricity, magnetism, and other special topics time permitting. Critical thinking and problem solving skills are stressed with evaluation being based upon tests, quizzes, laboratory exercises, projects, homework and participation.

Advanced Engineering Technology gives students the opportunity to learn about and experience engineering topics through direct instruction, class work, activities, tests, labs and projects. Students will also experience engineering through guest speakers, field trips and face-to-face interactions with practicing engineers. STEM (Science, Technology, Engineering and Math) concepts are emphasized throughout. Students interested in a wider range of physics topics and a course that prepares them for the AP Physics 1 Exam should consider enrolling in the Advanced Placement Physics 1+ course.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
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Family & Consumer Sciences Program

The mission of the Family and Consumer Sciences Program is, "To manage with reason and creativity the challenges across the lifespan of living and working in a global society." -*Task Force-Future Directions in Family and Consumer Sciences*

"Family and consumer sciences (FCS) is the comprehensive body of skills, research, and knowledge that helps people make informed decisions about their well being, relationships, and resources to achieve optimal quality of life. The field represents many areas, including human development, personal and family finance, housing and interior design, food science, nutrition and wellness, textiles and apparel, and consumer issues." -*American Association of Family and Consumer Sciences*

Student achievement is measured by observed growth, work habits, problem-solving ability, cooperation and understanding of others classroom activities, and project work.

Family & Consumer Sciences Courses

Fabulous Foods (S263)
Fashion & Technology (S257)
Senior Foods (S262)

*See Culinary Arts for other food related courses and Early Childhood Education for Understanding Young Children

Family and Consumer Sciences

Fabulous Foods

Course	Credits	Suggested Grade Level
S263	.5	9-12

Prerequisites:

This course will cover a variety of skills, techniques, and culinary wonders related to the fabulous power of food. This immersive experience goes beyond the realm of mere cooking; it is a celebration of the incredible influence food has on our well-being. Designed to empower students, this course offers interesting demonstrations, hands-on preparation of delicious and healthy dishes, and exploratory activities within a supportive group setting.

Students are provided an opportunity to discover the art of sustainable food practices, cultivate mindfulness through conscious eating and strategic meal planning, managing food allergies and sensitivities, and master the essential skills for safe and wholesome food preparation. Students also learn and discuss research-based nutrition, the secrets of smart grocery shopping, and receive invaluable tips for maintaining a healthy lifestyle.

Fashion & Tech

Course	Credits	Suggested Grade Level
S257	.5	9-12

Prerequisites:

Fashion and Technology is a course designed to immerse you in fashion and design. Immediately you will begin with color and design theory. Construction techniques are taught as you make the projects of your choice. The latest technology is included in machines including sergers and embroidery machines.

The topics included are what is best for you and your wardrobe, buying it right, knowing before sewing, and the technology involved in starting to sew and use textiles. You are required to furnish materials for the projects you choose to complete.

Fashion and Technology can be elected more than once as a different set of skills are learned each time the course is elected.

Senior Foods

Course	Credits	Suggested Grade Level
S262	.5	12

Prerequisites: Required grade level status: 12th grade

The course you've been waiting to take, Senior Foods, is a course in foods and cooking for life. The course includes labs and demonstrations in the following units of study: breads, soups, pasta, pastry, salads, vegetables, poultry, meats and convenience cooking. Basic preparation skills, microwave cooking and the use of small appliances are emphasized. Several field trips are taken throughout the course. Students prepare recipes from each unit. Examples of recipes selected are: pizza, pasta, apple pie, specialty pies, fajitas, stir-fry dishes and more. A popular feature of the course is a unit where students use convenience products to prepare many different parts of the meal. Recipes are updated to reflect current food trends and student tastes.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
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V- Virtual I- IB Programme

Health Professions Sports Therapy & Exercise Science

Health Professions recommends one of two pathways for students to explore health care and wellness careers. Students can choose from a nursing/medical pathway or a sports therapy/exercise science pathway. Several courses are offered in both pathways initially and both provide a strong background in the sciences as well as prepare students for post-secondary education. Nursing/Medical culminates in a nurse aide training course/certification and prepares students for careers in medicine, nursing, physician assistant, etc. Sports Therapy/Exercise Science steers students towards professions such as physical therapy, athletic/personal training, physician assistant, nutrition, medicine and culminates with preparation for students to sit for the ACSM Certified Personal Trainer exam.

Health Professions Courses

Health Systems and Professions (Y769)
Language of Medicine (S772)
Intro Sports Medicine (Y764)*
Health Care Evidence (S709)
Anatomy & Physiology (Y753)
Clinical Observations (S768)*
Nurse Aide Training (Y765)*
Adv Personal Training/Fitness & Exercise Science/Sports Nutrition (Y837)* (Schedule/Transcript will reflect S556, S557 & Y838)
CWE Health Professions (Y727)
CWE Health Research (Y824)
CWE Sports Therapy (Y762)

*Courses denoted with * offer real life clinical experiences.

**Courses are listed in the sequential order that they should be completed with introductory courses listed at the top moving downward to more advanced courses.

Health Professions

Health Sys Pro



Course	Credits
Y769	1

Suggested Grade Level 9-12
Prerequisites:

Health Systems and Professions is the preferred introductory course for any student exploring or considering a career in the healthcare field. Students will learn about the history of healthcare, health policy, how the health care system and insurance are organized and how different components of the healthcare system interact with each other. In addition, students will explore legal and ethical issues and learn basic skills such as the use of medical terminology, medical math, vital signs, HIPAA, etc.

Lang Medicine



Course	Credits
S772	.5
V772	

Suggested Grade Level 10-12
Prerequisites:

The Language of Medicine course is for the student who wants to be able to read, write and understand medical language. It provides a foundation for the use of the language of medicine both personally and professionally by emphasizing correct pronunciation, spelling, and abbreviations pertaining to body systems. This course provides an introduction to anatomy, physiology and pathophysiology as well and improves one's ability to better communicate in healthcare. This course is a prerequisite for Clinical Observations and Nurse Aide Training. This course is eligible for college credit through St. Francis University at an additional cost for interested students.

Intro Sports Med



Course	Credits
Y764	1

Suggested Grade Level 10-12

Prerequisites: Language of Medicine and Health Systems Professions are strongly recommended but not required.

Introduction to Sports Medicine encompasses the prevention, diagnosis, treatment and fitness of athletes and injuries from sports participation. Students potentially interested in becoming a sports medicine professional (athletic trainer, physical therapist, sports chiropractor, personal trainer, orthopedic surgeon, physician assistant, strength & conditioning coach, sports nutritionist, sports psychologist) would benefit from the course elements of dynamic human anatomy (kinesiology) and medical terminology as they relate to athletic injuries. This course has a laboratory component that includes athletic taping and wrapping techniques. Students will be required to complete 15 hours of internship. Opportunity to intern with a healthcare provider is included as part of the course. HIPAA and Concussionwise certification are part of this course.

Health Care Evidence



Course	Credits
S709	.5

Suggested Grade Level 10-12

Prerequisites: Successful completion of one other Health Professions Course
Language of Medicine is strongly recommended

Health Care Evidence and Research provides an introduction to the evidence behind health care and medical decisions. Students will learn to access, interpret and rank medical research as well as appreciate the concept of EBP (Evidence-Based Practice). This course is highly recommended for students confident they will enter a health care/medical profession that require this knowledge and skill set (Medicine, Nursing, Physician Assistant, Physical/Occupational/Speech Therapy, Athletic Training, Dental, etc.).

This course offers the option to receive advanced weight credit with an individual LE contract.

Anatomy & Physiology



Course	Credits
Y753	1

Suggested Grade Level 11-12

Prerequisites: Advanced Biology 1, Biology 1

This course will involve students in an in depth study of the structure and function of the human body. Special attention will be given to the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, immune, respiratory, digestive, lymphatic, urinary and reproductive systems. It will provide a firm foundation for further study at the post-secondary level. Students are encouraged to take Anatomy & Physiology with the other Health Professions courses.

It is recommended that students have two years of high school mathematics before scheduling this course.



International
Baccalaureate
Programme



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Health Professions

Clinical Observ



Course Credits
S768 1

Suggested Grade Level 11-12
Prerequisites: Language of Medicine
Strongly recommended-concurrent enrollment in Anatomy & Physiology

Clinical Observations is for students who are serious about pursuing a career in healthcare (medicine, nursing, dentistry) who would like the opportunity to shadow different healthcare providers in hospital and community settings. This class is limited to 12 students per section and requires students to provide their own transportation to school and clinical sites. Mount Nittany Medical Center is the main site for the clinical observations. This experience is under the supervision and coordination of a Health Professions instructor. Students must apply to be accepted into the course and participate in a selection interview with a committee as well as meet physical health requirements. *Eleventh graders receive top priority. Twelfth graders are encouraged to apply and are admitted as space permits.

Nurse Aide Training



Course Credits
Y765 2

Suggested Grade Level 11-12
Prerequisites: Language of Medicine is required, Must be 16 years old, Anatomy and Physiology is strongly recommended

The 181.5 hour-nurse aide training course is approved by the Pennsylvania Department of Education and prepares students for RN, CRNP, PA & MD training and for employment in hospital and long term care settings. Upon successful completion of the course students are eligible to take the state certification exam. Students are required to complete all classroom, lab and clinical time in order for successful completion. This course is not recommended for students with attendance or scheduling conflicts. Space is limited to 18 students and only students who are at least 16 and have successfully completed Language of Medicine with a C or higher may apply. Students will be required to complete an application and submit to an interview by a committee. *Twelfth graders receive top priority, eleventh graders are encouraged to apply and are admitted as space permits.

This course runs from 8:00 AM through the first block daily and requires students to provide their own transportation to clinical sites, meet physical health requirements and obtain background clearances.

Adv Pers Train/ExSci/SptsNutri

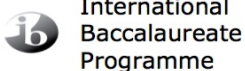


Course Credits
Y837 2

Suggested Grade Level 12
Prerequisites: / Corequisite: Introduction to Sports Medicine & Anatomy & Physiology

Designed primarily to prepare students to become professional CPT's-Certified Personal Trainers, this course utilizes the ACSM - American College of Sports Medicine material as the foundation. In these unique lecture and lab based nested courses, instructors collaborate to best enable students to learn about fitness, wellness, sports nutrition and exercise in preparation to serve clients or themselves across the age span and with a range of health conditions. To sit for the ACSM CPT exam, one must be 18 years of age, a high school graduate and CPR certified with AED training. Our goal is to best prepare students to take this exam independently to obtain their professional certification. Students are required to obtain fifteen internship hours provided through course partnerships. CPR and HIPAA certification is typically offered. This course is eligible for college credit through St. Francis University at an additional cost for interested students.

By registering for course Y837 students will be auto enrolled in three courses; Adv Sports Med:Personal Training (Y838), Adv Fitness and Exercise Science course (S556) counts as the junior or senior PE requirement and the Adv Sport Nutrition and Safety (S557) course counts as a junior/senior Health credit.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
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Health Professions

CWE Health Pro

Course Credits
Y727 .5 to 2

Suggested Grade Level 10-12
Prerequisites: This course is only available to students who are enrolled as a secondary concentrator of the CTC Program and have prior approval through the instructor.

The Career Work Experience (CWE) Course is only available to students who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows students to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, and Independent Research. Each year the instructor will announce these opportunities to eligible students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.

CWE Health Research

Course Credits
Y824 .5 to 2

Suggested Grade Level 11-12
Prerequisites: Biology I or Adv Biology, Chemistry I or Adv Chemistry, and at least 1 credit of a Health Professions class with a grade of B or better.

Students spend 10 hours per week during both fall and spring semesters conducting research in the lab of a professor in the College of Health and Human Development at Penn State.

Students must apply to be accepted into this course and participate in a selection interview.

CWE Sports Therapy

Course Credits
Y762 .5 to 2

Suggested Grade Level 10-12
Prerequisites: This course will not be available to students who are not enrolled as a secondary concentrator of the CTC program and have prior approval through the instructor

The Career Work Experience (CWE) Course is only available to students who are enrolled in a related CTC course and have received instructor approval during the previous school year. This course allows students to utilize the knowledge and skill that they developed through previous coursework and apply their expertise to real-world applications. CWE is designed to provide work based learning opportunities to culminate students' education and employability skills in a field related to their academic and career goals. The primary objective of this course is to promote workforce preparedness through strategic integration of classroom theory and occupational practice in an approved and supervised placement.

There are several CWE options for students to choose from including both on-site and off-site placements. Options can include: Cooperative Work Experience/Capstone (Job Placement or Internship), Teaching Assistant, and Independent Research. Each year the instructor will announce these opportunities to eligible students and facilitate a selection and placement process for the following school year. Students must complete this process within the designated timeframe to be considered for placement. Students will be hand-scheduled for this course by the instructor.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
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Technology Education Program

Technology Education is the means by which we teach Technology, which is found in the Pennsylvania Academic Standards for Science and Technology. Technology Education is a body of knowledge separate from, but related to, the sciences, with specific content and curriculum. Technology is the application of tools, materials, processes and systems by humans to solve problems and provide benefits to humankind. We use technology in an attempt to improve our living and working environment.

Technology Education involves a broad spectrum of knowledge and activities. Technology Education combines knowledge of content, processes and skills to provide students with a holistic approach to learning. Technology Education offers unique opportunities to apply numerous academic concepts through practical minds-on/hands-on applications. The relationship between science and technology is where science builds principles or theories and technology provides the practical application of those principles or theories.

**For more information visit: <http://www.scasd.org/Page/32624>

Technology Education

Pathway	Courses
Materials, Engineering and Processes	Materials Processing 1 Materials Processing 2 Materials Processing 3 Adv Tech Research & Design
Visual Communications Technologies	Computer Graphics 1 Comp Eng Graphics 2 Video Media Tech Adv Comp Eng Graph Adv Coding & Game Dev

*Courses are listed in the sequential order that they should be completed with introductory courses listed at the top moving downward to more advanced courses.

Tech Ed

Materials Processing 1

Course	Credits	Suggested Grade Level
S570	.5	9-12

Prerequisites: Interest in using tools to make things and solve problems

Materials Processing 1 is a semester-long hands-on course open to all interested students; no prior experience is necessary. Focusing on the “T” and “E” of STEM, students in this course can develop lifelong skills in the safe use of tools and machines, sketching and project planning, and woodworking while making guided and student-selected projects. Concepts from Math and Science are also utilized in measuring and the design process. In a state-of-the-art facility, students will have the opportunity to utilize professional-grade tools and machines and CNC and laser engraver technologies.

Materials Processing 2

Course	Credits	Suggested Grade Level
Y572	1	10-12

Prerequisites: Successful completion of Materials Processing 1 with a “C” average or better.

Materials Processing 2 is a year long, hands-on course to further develop skills presented in Materials Processing 1. Students can continue developing lifelong skills in the safe use of tools and machines, sketching and project planning, and woodworking while making student-selected projects. Additional techniques will be presented in wood turning, machining, joinery, and finishing while using tools not available in Materials Processing 1. Projects will incorporate the use of more advanced equipment such as a full-size CNC router and lathe, hand-held CNC router, and laser cutter and engraver. An engineering challenge will also be assigned during the length of the course where students design and construct a project that meets specific goals and helps others.

By enrolling in this exciting hands-on, project-oriented class, students can continue developing practical skills, learn how to solve problems and make repairs, and create valuable projects to be taken home to enjoy! www.scasd.org/Page/32618

Materials Processing 3

Course	Credits	Suggested Grade Level
Y573	1	11-12

Prerequisites: Successful completion of Materials Processing 2 with a grade of “C” or better

Materials Processing 3 is designed for students skilled in the use of tools, machines, and techniques, as presented in Materials Processing 2. Using those skills, along with automated manufacturing processes, students will work together to form an enterprise to create and sell finished products. Beginning with a survey and research on community needs, prototypes will be developed and tested to create the best possible solution. Once a design has been selected and produced, those items could be sold to pay for material and production costs, including the cost of the projects taken home by students. Opportunities for individual, student-select projects will also be available during this course. Student-selected projects should illustrate the principles of good design, methods of joinery and skills learned from the previous materials processing course.

By enrolling in this exciting hands-on, project-oriented class, students can continue developing practical skills, learn how to work in a team, earn community service hours, and create valuable projects to be taken home to enjoy. www.scasd.org/Page/32618

Adv Tech Research & Development

Course	Credits	Suggested Grade Level
Y832	1	11-12

Prerequisites: Successful completion of two courses in a high school Technology Education or CTC sequence.

This course provides an opportunity for students to apply research, engineering, and making skills in a STEM Lab to develop solutions to complex problems. Using the Engineering Design Process, students will conduct research on a specific problem in their area of interest, gather ideas, and brainstorm possible solutions to birth innovation. A lab space with state-of-the-art technology in laser cutting and engraving, waterjet cutting, CNC machining, 3D printing, and plastic, wood, and metal subtractive manufacturing processes will be available to construct a working product. After completing a few units on the safe use of these versatile machines, students will have most of the year available to complete an open-ended and challenging project of their choosing.

Students are encouraged to utilize this course to fulfill parallel goals, such as TSA projects, Science Olympiad, Eagle Scout Project, college portfolios, or community service. The final presentation in this course will aid in documenting students’ time, effort, and creative pursuits, which may be valuable to colleges and employers who seek individuals with real-world, problem-solving skills. <https://www.scasd.org/Page/34892>



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Tech Ed

Computer Graphics 1

Course	Credits	Suggested Grade Level
S554	.5	9-12

Prerequisites:

This course is a hands-on, project oriented class, with several take home and personalized projects with (No Homework). It offers a fantastic way to be introduced to a variety of computer graphic and engineering software packages and concepts. These software packages will be used to develop 2D and 3D model animations, image designs, 3D prototypes, 3D prints, laser etch/cut designs, and for coding and video game development. The goal is to enhance and develop skills for all State High graduates, as you enter an increasingly technological world. These experiences will prepare you for postsecondary majors in engineering fields, computer science, video game design, film production, industrial design, and a host of other STEM related majors.

Software packages introduced in this course include: Autodesk's 3D Studio and AutoCAD, Solidworks, Adobe Photoshop and Illustrator, 3D printing applications, and Unity. This course is a prerequisite for Computer Engineering Graphics 2 and Advanced Coding and Game Development.

For more information, visit: <https://www.scasd.org/teched/troyalesi>

Comp Engineering Graphics 2

Course	Credits	Suggested Grade Level
S555	.5	9-12

Prerequisites: Computer Graphics 1

This is a follow-up course to Computer Graphics 1, which will make deeper connections to software and problem solving skills, you were introduced to in Computer Graphics 1. You will now build depth in ability, content, and knowledge, as we use these skills in several new and exciting units. In one project, we will be working with the engineering department at Penn State, on a 3D STEM design challenge. In another unit, you will design an architectural 3D floor plan in Autodesk Revit, including: walls, windows, doors, floor, ceiling, and roof. You will fully furnish and accessorize your design to model your ideal living space. You will make this a live and interactive walkthrough animation, and post it to the web. In another project, you will bring several programs together, as you will model the star character of a video game in 3D Studio. Textures will be created in Adobe Photoshop, and the video game will be created in Unity 3D, and built and published to the web. These projects and others, will be posted to an online portfolio set up in Wix.com. There you will have a live, interactive showcase of your work.

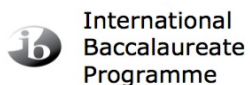
Throughout your experience, we will continue to make connections to various fields of study, including, but not limited to: engineering fields, computer science, video game design, film and video production, web design, and a host of other STEM design majors. All work to be completed in class (No Homework).

Video Media Tech

Course	Credits	Suggested Grade Level
S565	.5	9-12

Prerequisites:

This elective explores the process of writing, shooting and editing video productions using the latest technology in video and film effects. This is a hands-on course to produce a variety of video and media productions. Play the role of screenwriter, director, and cinematographer as you create projects to entertain and inform using Adobe Photoshop, Premiere, After Effects, Illustrator, and Audition. Classroom resources available to you include; non-linear editing software, cameras available for checkout, sound production equipment, and the latest video production technology including Gimbals, an aerial videography drone, and 360-degree cameras. Create stunning student-made videos from beginning to end. Learn how to implement green screen technology, motion graphics, title sequences, video effects and professional camera techniques into your productions. Produce teacher-assigned and student-selected projects as you share finished video productions with family, friends, and classmates through a Web-based portfolio. For example projects check out this link: www.scasd.org/teched/vmt



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Tech Ed

Adv Comp Eng Graph

Course	Credits
Y551	1

Suggested Grade Level 10-12
Prerequisites: Computer Graphics 1 & Computer Engineering Graphics 2

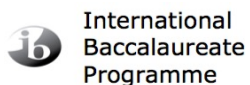
This weighted course is the 3rd in a sequence, and is designed to provide a culminating experience which includes everything completed through Computer Graphics 1 and Computer Engineering Graphics 2. The units and projects in this course are meant to be fun and meaningful, while taking your skills to the next level. You will work to solve individual and team challenges, while completing exciting design projects. You will also complete personalized, take home projects and independent assignments. Field trips and guest speakers will be utilized to showcase applications of the use of our software, tools, and design projects. Throughout the year, we will also explore various colleges and related majors. The final projects will be presented using an online web based portfolio. Many students use these portfolios for college application, or for scholarship consideration in design fields. All work is to be completed in class. As our Video Media Technology course has related projects, it could also be used as one of two classes to get into this course.

Adv Coding & Game Dev

Course	Credits
Y831	1

Suggested Grade Level 10-12
Prerequisites: Computer Graphics 1

If you enjoyed Computer Graphics 1, and you like playing games, you will do great with this course. We will model, texture, animate, light, and code to create interactive video games. Scenes will be developed in 3D Studio Max. Photoshop will be used to develop textures, and Adobe Audition will be used to edit and create sound effects. These assets will be imported into our game engine software (Unity) and coded using Microsoft Visual Studio, in the C# language. Learn to design and build interactive games including: health systems, game HUDs, and game controllers while we go from skill builder projects to team designed, full featured games. Completed games will be published to the web for game sharing and playing. We will also explore PC, Mac, and Android formats. Students also use several HTC Virtual Reality systems to produce VR content. This is a weighted course, but you should be able to complete all work during class time. To see games created by our students visit: <https://www.scasd.org/CodingandGamesinCG>.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Workforce Development & Diversified Occupations

The Workforce Development Program (WDP) is a structured educational system that integrates traditional classroom instruction with real world experience in a field related to each student's academic and/or career goals. The WDP operates as an integral part of our Career and Technical Center (CTC) to provide cooperative arrangements between the school, employers, educational institutions, and community stakeholders. This alliance provides many opportunities for workforce education through integrated theory and practice as part of our four interrelated components: Work-Based Learning; Diversified Occupations; Career and College Pathways; and Community Engagement.

Diversified Occupations is a one year program which includes two required courses. This program prepares students for entry into the workforce at all levels and is designed for all students, regardless of post-secondary plans. Instruction is provided in such areas as employer-employee relations, applications and resumes, interview techniques and transitional work and life skills. The program is designed to increase skills through individual and class study, and on-the-job training opportunities, encouraging attitudes and habits, which meet employment standards. Students have the opportunity to work at a local training agency under the supervision of the high school cooperative education coordinators. In order to receive additional elective credits the students must work a minimum of 17 hours per week.

Diversified Occupations is recommended for any 12th grade student and designed for students to be enrolled in both classes (Y694 and Y692) listed below. Priority for enrollment will be given to students who participate in the full program (3 credits).

Diversified Occupations Courses

Diversified Occupations (Y694)
CWE Diversified Occupations (Y692)

*Students are required to take both of these courses to be enrolled in this program

Diversified Occupations

Diversified Occupations

Course	Credits	Suggested Grade Level
Y694	1	12

Prerequisites: Interview with DO teacher prior to enrollment

Diversified Occupations is a full year, one-credit course designed to be completed along with CWE Diversified Occupations course. The course prepares students for entry into the workforce at all levels and is designed for all students, regardless of post-secondary plans. Instruction is provided in such skills as employer-employee relations, applications and resumes, interview techniques, banking/credit information, and life skills. The course is designed to increase skills through individual and class study and on-the-job training opportunities, encouraging attitudes and habits to meet employment standards. Students who are interested in earning two additional credits for working must concurrently register for Cooperative Work Experience - Diversified Occupations (Y692). Priority for enrollment will be given to students who participate in the full program (3 credits)

CWE Divers Occ

Course	Credits	Suggested Grade Level
Y692	.5 to 2	12

Prerequisites: This course is open to seniors who are admitted to the Diversified Occupations Program following a personal interview. Students must be concurrently enrolled in Diversified Occupations.

Cooperative Work Experience is a full year two-credit course. This course provides the opportunity for the student to develop job skills in a supervised on-the-job training experience. The student will work a minimum of 17 hours per week in a field of their choice. Students will also complete all state requirements for this CTC program including student career objective forms, POS task list, and the 21st Century Skills for Workplace Success NOCTI exam (both Pre and Post Tests). Students who fail to complete and maintain minimum requirements for attendance, discipline, and CTC obligations will be removed from placement and forfeit the 2 credits for this course.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

Special Programs

English for English Language Learners (English as a Second Language)

Following the guidelines from the Pennsylvania Department of Education, the State College Area School District provides an appropriate English as a Second Language (ESL) program to all students with limited English proficiency. This program addresses the student's learning needs as determined through an evaluative process. The program is highly individualized; however, each qualifying student will be enrolled in at least one ESL English or ESL Social Studies class, depending on the results of English language placement tests, a personal interview, the student's academic background, and length of time in the US.

High School English Courses for ELLs

These courses are designed for students whose dominant language is not English and, at the same time, satisfy the English requirements for graduation. The courses emphasize providing students with increased confidence, greater understanding, and personal growth through improved language skills. Based on a data review, these courses can be retaken as part of the student's progress toward English proficiency. Emerging English for ELLs

At the Emerging Level, students work to attain new vocabulary and develop basic aural/oral communicative skills. Student activities emphasize the four domains: listening, speaking, reading, and writing. Particular emphasis is placed on phonemic awareness and grammar for newcomers to the US.

Intermediate English for ELLs

At the Intermediate level, students continue to work on the four domains: listening, speaking, reading, and writing. In addition, they read English literature, write essays, learn idiomatic English, and prepare oral and written reports. Students build on skills related to reading and discussing American/British literature, writing more extensively, developing public speaking skills, and preparing for the WIDA ACCESS English Language Proficiency Test and the state-mandated Keystone English test.

Emerging/Intermediate Social Studies for ELLs

These courses are designed for students whose dominant language is not English and, at the same time, satisfy the social studies requirements for graduation. Students work to develop mastery of the language as they gain a greater understanding of American history and culture. The content of this course stresses various aspects of American life, including activities focusing on holidays, historical events, and current issues. The academic emphasis of this course is on reading and writing skills. Computer literacy and research skills are also stressed. These courses provide unique opportunities for ESL instruction depending on a student's proficiency level, including those new to the country. Based on a data review, these courses can be retaken as part of the student's progress toward English proficiency.

Transition and Monitoring

As students close the gap in their English proficiency journey, most ELLs are placed in General Education English courses with support from the ESL Department. Transition and Monitored (students who have exited services) students can access the ESL Resource Room and meet by appointment for assistance, guidance, and support in their core subjects. The ESL teacher tracks the student's academic progress in all core subjects via ELLevation, a digital resource for tracking ESL learners' growth, and records them for compliance checks..

Services for Home Schooled Students and Students in Private Schools

Any resident school age student that will be in grades 9-12 during the school year may enroll in courses and/or co- curricular activities at the State College Area School District.

HOMESCHOOL students must have filed an affidavit, course plan and be registered with the Registration Office. They must complete a request to participate form in curricular and co-curricular activities by February 12.

Students in homeschooling may borrow course materials from the school provided they have filed an affidavit, and course plan. Materials request need to be turned in by August 2.

PRIVATE school students may take courses provided the course is NOT available at the private school. The private school principal must make arrangements for the student and provide a letter to the registration office.

Contact the Registration Office at 814-231-1017 or email registration@scasd.org with additional questions.

Learning Enrichment/Gifted Support Program

The General Education program provides for many levels of student ability, including college preparatory, advanced, Advanced Placement (AP), and International Baccalaureate (IB) courses. The State College Area School District recognizes that highly able learners may have differing educational needs beyond what the General Education program offers. State High's program for highly able learners is called the Learning Enrichment/Gifted Support Program (LE/GS). The Learning Enrichment arm of the LE/GS program can meet the needs of highly able learners in a variety of ways. Participation in Learning Enrichment In or Out requires an application.

Learning Enrichment/ARTsmART

Learning Enrichment is an individualized program for students who have evidenced a high degree of ability, and whose educational plans can be enhanced by learning activities in the school and/or community. Students typically spend their day in the high school taking required and elective courses for graduation. An individual learning contract outlines learning objectives and enrichment goals, which are required for program participation.

The Learning Enrichment Program is flexible enough to meet the needs of students who have different interests, skills, and educational goals as well as students who are identified as mentally gifted. A LE/GS teacher will work with learning enrichment and gifted students to ensure proper course levels and placements that provide the needed level of rigor while maintaining a balance across courses.

ARTsmART is an extension of the enrichment program for academically motivated students with interests or gifts in music, visual, and performing arts.

Learning Enrichment/ARTsmART options

With advanced approval, students may participate in the LE program through their pursuit of credit by means outside of the General Education program. Alternative credit options are limited to:

- Independent Study
- Correspondence or Online Course (via BYU, Keystone, or SCASD Community Ed)
- Course by Appointment (Must be approved by building principal)
- Advanced Option
- Formalized Study Abroad Programs (upon completion, study abroad transcript evaluation will be reviewed by LE and/or counseling)

Options for non-credit enrichment experiences include but are not limited to:

- LE/AS IN
- LE/AS OUT

- Lab Experience
- LE/AS Class
- Penn State Class
- Mentorship/Internship
- Music Practice (in or out of school)
- Private Lesson
- Coaching
- Community Service

Students interested in scheduling enrichment experiences are encouraged to meet with a program specialist for applications and contracts well in advance of the onset of each semester. Contact information for program specialists can be found on the District website under the Academics tab. Click on Gifted Services to find the High School specific information, or call (814)-231-1054.

****The student/family is responsible for funding general education enrichment options that incur costs outside of SCASD (private lessons, tutoring, PSU classes, etc).**

Learning Enrichment/ARTsmART IN

Acceptance to the LE/AS IN program is dependent upon grade level acceleration (measured by advanced level or higher) in several core classes (LE) or arts classes (AS) and exemplary performance in all classes. LE/AS IN includes but is not dependent upon gifted identification. Consideration for LE/AS IN at the high school requires an application. Continued participation is dependent upon maintaining an active student contract, goal setting and reflection during each semester of involvement, as well as updating the individual Learning Enrichment/ARTsmART Student Profile and maintaining rigor and exemplary performance across courses. LE/AS IN students are typically scheduled in the Learning Enrichment or ARTsmART rooms during study hall time to meet their learning goals and work on enrichment activities or ARTsmART plans. Students who are interested in participating in the LE/AS IN program through scheduled time in the LE or AS classroom should contact a LE/GS teacher for an application.

Learning Enrichment/ARTsmART OUT

In response to varied student interests and needs, the LE/AS program offers an opportunity to leave the high school campus to pursue experiences not available within this setting. Parental involvement and responsibility are especially vital to LE/AS options that involve leaving campus. Students must demonstrate superior performance in all classes to qualify and maintain eligibility for LE or ARTsmART OUT and must maintain a log of their experiences with a monthly reflection. Mentors/coaches/outside resource people must provide copies of child abuse clearances to Volunteers in the Public Schools (VIPS) to be kept on file. LE/AS Out does not qualify students for priority parking permits.

Advanced Option

Any elective course for which an Advanced, AP, or IB level is not available within the scope and sequence of the subject area may be eligible for an Advanced Option contract. This contract will be created in collaboration with the teacher of record and an LE/AS

teacher. Advanced Option contracts require substantial depth and complexity beyond the requirements for the regular level course. Successful completion will result in advanced credit and a weighted grade. Note: Advanced option credit is not available for non-elective classes required for graduation. (ex) PE, Health, English, Social Studies. Advanced option credit is additionally not available for World Language courses prior to Level 4.

Gifted Support

Students who have needs that cannot be met within General Education and Learning Enrichment services can be referred for evaluation for Gifted Support services. The Gifted Support component may provide acceleration and/or enrichment for students who have unusual abilities and are identified as mentally gifted. A multidisciplinary team determines the appropriateness of placement in Gifted Support based on information secured from group achievement and ability tests, grades, an individual psychological examination, parent and teacher observations, and teacher, program specialist, and administrator recommendations as defined by Chapter 16 of the Pennsylvania School Code. If Gifted Support services are recommended by a multidisciplinary team, the parent(s) and the student will be invited to attend and participate in a program planning meeting where a Gifted Individualized Education Plan (GIEP) will be developed. This document is then reviewed annually to discuss progress toward goals.

As educational options become more broad, GIEP teams may find that specially designed instruction for gifted students may no longer be needed based on present levels of performance gathered through regular progress monitoring and other assessment data. At that time, a re-evaluation may be initiated. Regardless of the outcome of the re-evaluation process, a student's mentally gifted identification remains throughout their K-12 experience within the state of Pennsylvania regardless of GIEP status. The SCASD educational records system alerts all teachers of gifted designation through graduation.

Special Education Programs

In compliance with PA Chapter 14 Special Education Programs & Services and Individual with Disabilities Education Act (IDEA), the State College Area School District provides to all students with a disability and in need of Specially Designed Instruction a free and appropriate public education.

The special education process is designed to address the learning needs of the student identified through a multidisciplinary evaluation. Once a student is identified to be in need of special education, school personnel, parents and the student work together to develop an individualized appropriate program of education. This specially designed instructional plan for the student with a disability is referred to as an **Individualized Education Program** (IEP).

Each student's IEP team determines the level and type of support the student will receive, and the student's schedule will reflect those decisions.

For additional information, contact the SCASD Special Education office at (814) 231-1072 or (814) 231-4172.

Delta Program

THE DELTA PROGRAM

The Delta Program is a small learning environment in the State College Area School District that focuses on students taking ownership of their education. Delta is a democratic school of choice for students in grades 6 – 12. The Delta Program provides a flexible educational program for students that may include courses at Delta, the traditional high school, Penn State, and independent contracts. Each student and his/her parents or guardians are members of an advising team that meets at least three times a year with the student's advising teacher. This team helps the student set learning goals, address student needs, and deals with any concerns the student, parent, or staff may have.

The Delta Program's academic curriculum serves a wide variety of students and focuses on specific content areas. Students are also welcome to enroll in any high school course that fits their needs and interests and to participate in any high school athletic team or extracurricular activity. On average, 90% of Delta students take at least one course at State High during the school year. The State College Area High School and The Delta Program both provide students with a strong academic foundation for post-secondary education.

One of the missions of The Delta Program is to instill a sense of community among the students, whether it be in our school, the local community, or globally. Every student enrolled at Delta is expected to contribute a minimum of 30 hours of community or program service per year. Last year, Delta students recorded over 5000 service hours.

Students who want to attend The Delta Program must complete and submit an application. To learn more about Delta, call the Delta Office (814 231-100) and make an appointment to talk with Delta's director. Application forms are available online and at The Delta Program Office.

International Baccalaureate Programme

International Baccalaureate Programme

IB Mission Statement

The International Baccalaureate aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

To this end, the organization works with schools, governments, and international organizations to develop challenging programmes of international education and rigorous assessment.

The programmes encourage students across the world to become active, compassionate, and lifelong learners who understand that other people, with their differences, can also be right.

Diploma Programme (DP)

The IB DP is a two-year programme for students in their 11th and 12th grade years of high school. The programme aims to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet, help to create a better and more peaceful world.

Informed by these values, an IB education:

- centers on learners
- develops effective approaches to teaching and learning
- works within global contexts
- explores significant content.

In addition, an IB education empowers young people for a lifetime of learning, independently and in collaboration with others. It prepares a community of learners to engage with global challenges through inquiry, action, and reflection.

For more information, contact: Dr. Jennifer Schreiber, Diploma Programme Coordinator (814) 231-1011 x 6697

IB Course Guide Descriptions

*Students who register for courses with the IB have the option to participate in IB external assessments in addition to the regular class assignments. IB assessments have an associated fee, which is the responsibility of the student. Financial assistance is available. Students must be in 11th or 12th grade to register for an IB course. Students in the IB Programme are expected to uphold the highest standard of academic integrity as set forth in the SCAHS IB Academic Integrity Policy.

**All IB courses are weighted.

Rationale: Students who are diploma candidates in the Diploma Programme are required to complete six courses (one from each curricular group). Course candidates in the Diploma Programme may take courses a la carte.

Diploma Programme Requirements

Diploma Programme Core		Diploma Programme Courses			
Theory of Knowledge course; Creativity-Activity-Service; Extended Essay		Students are required to take one course from each of the six curricular groups listed below.* Three courses must be at the higher level (HL) and three must be at the standard level (SL.) *Students may choose to eliminate Group 6 and take two courses in another group.			
Group 1: Language and Literature	Group 2: Language Acquisition	Group 3: Individuals and Societies	Group 4: Sciences	Group 5: Mathematics	Group 6: The Arts
IB English Language and Literature	IB Latin IB French IB German IB Spanish	IB Business Management IB Economics IB History of the Americas IB World Religions	IB Environmental Systems and Societies IB Physics IB Sports, Exercise, and Health Science	IB Math: Applications and Interpretation SL IB Math: Applications and interpretation HL	IB Film IB Visual Arts

IB Programme

IB Business Mgt Y1



Course Credits
1939 1

Suggested Grade Level 11-12
Prerequisites:

Students learn to analyze, discuss, and evaluate business activities at local, national, and international levels. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation, and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools, and techniques and placed in the context of real world examples and case studies.

IB Business Mgt Y2



Course Credits
1940 1

Suggested Grade Level 12
Prerequisites: IB Business Mgt HL Y1

Students learn to analyze, discuss, and evaluate business activities at local, national, and international levels. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation, and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools, and techniques and placed in the context of real world examples and case studies.

IB Economics



Course Credits
1941 1

Suggested Grade Level 11-12
Prerequisites:

The IB Economics course is a study in both macroeconomics and microeconomics, with an emphasis on applying economic concepts and theories to real-world issues. Prominent among these issues are fluctuations in economic activity, international trade, economic development and environmental sustainability. Additionally, students will engage in a study of international economies, as well as developing economies. Participants will investigate the ethical dimensions involved in applying economic policies and practices, and attention will be paid to the development of possible solutions to the economic challenges that we face as an increasingly interdependent and global society.

IB Enviro Systems & Soc



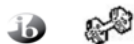
Course Credits
1933 1

Suggested Grade Level 11-12
Prerequisites:

IB Environmental Systems and Societies is an interdisciplinary course which combines the study of environmental science and societal perspectives to help students better understand the environment and its sustainability. This course focuses on several current environmental problems and issues, including climate change, air and water pollution, soil systems and food production, biodiversity, and human resource use. Students consider both local and global environmental issues and their impact on society. Course instruction includes field trips, lab activities, and analysis of case studies in addition to an individual investigation of an environmental topic of personal interest.

IB Programme

IB Film Y1

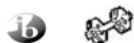


Course	Credits
I915	1

Suggested Grade Level 11
Prerequisites:

The IB Film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical, and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others. IB Film students will work collaboratively to experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium. It focuses on the international and intercultural dynamic that triggers and sustains contemporary film, while fostering in students an appreciation of the development of film across time, space and culture. IB Film students are challenged to acquire and develop critical thinking, reflective analysis, and the imaginative synthesis that is achieved through practical engagement in the art, craft, and study of film.

IB Film Y2



Course	Credits
I970	1

Suggested Grade Level 12
Prerequisites: IB Film Y1

The IB Film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical, and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others. IB Film students will work collaboratively to experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium. It focuses on the international and intercultural dynamic that triggers and sustains contemporary film, while fostering in students an appreciation of the development of film across time, space and culture. IB Film students are challenged to acquire and develop critical thinking, reflective analysis, and the imaginative synthesis that is achieved through practical engagement in the art, craft, and study of film.

IB French 1



Course	Credits
I961	1

Suggested Grade Level 11-12
Prerequisites:

IB French 1 is an advanced language course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB French 2



Course	Credits
I964	1

Suggested Grade Level 12
Prerequisites: IB French 1

IB French 2 is an advanced language course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB Programme

IB French 3



Course Credits
1967 1

Suggested Grade Level 11-12
Prerequisites: IB French 2

In French 3, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. The course develops students' awareness and appreciation of cultural products, practices, and perspectives through a variety of authentic materials including current events, fine arts, films, and technology. Students will apply communication skills in real-life situations including vocabulary usage, language control, communication strategies, and cultural awareness.

IB French 4



Course Credits
1947 1

Suggested Grade Level 11-12
Prerequisites: French 3

Students in IB French will continue to expand on previously learned communicative, cultural, and grammatical concepts by examining various cultural contexts in Francophone cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Francophone cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in French.

IB French 5



Course Credits
1948 1

Suggested Grade Level 12
Prerequisites: IB French 4

Students in IB French will continue to expand on previously learned communicative, cultural, and grammatical concepts by examining various cultural contexts in Francophone cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Francophone cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in French.

IB German 1



Course Credits
1962 1

Suggested Grade Level 11-12
Prerequisites:

IB German 1 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB German 2



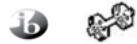
Course Credits
1965 1

Suggested Grade Level 12
Prerequisites: IB German 1

IB German 2 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

IB Programme

IB German 3



Course Credits
1968 1

Suggested Grade Level 11-12
Prerequisites: IB German 2

In IB German 3, students further develop and refine an understanding of the cultures of the German-speaking world through various topics, creative writing skills as well as their listening and speaking competencies. Class is conducted in German and students are expected to participate actively in whole-class and/or small group discussions.

IB German 4



Course Credits
1951 1

Suggested Grade Level 11-12
Prerequisites: German 3

Students in IB German will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in German-speaking cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of German-speaking cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in German.

IB German 5



Course Credits
1952 1

Suggested Grade Level 12
Prerequisites: IB German 4

Students in IB German will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in German-speaking cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of German-speaking cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in German.

IB History of Americas Y1



Course Credits
1942 1

Suggested Grade Level 11-12
Prerequisites:

The IB History of the Americas course is a two-year course, which will include a study of global history and issues, with an emphasis on Canada, Latin America, and the United States. The course focuses on student inquiry, investigation, and discussion. Students will study a variety of historical periods and events, including World War 2, the Cold War, the modern Americas, authoritarian states, and civil rights and civil liberties, and students will reflect on the global impact of these historical events. This course is designed to promote and enhance a student's critical thinking skills, and to allow students to learn history by investigating multiple perspectives and making comparisons over time.

IB History of Americas Y2



Course Credits
1943 1

Suggested Grade Level 12
Prerequisites: IB History of Americas Y1

The IB History of the Americas course is a two-year course, which will include a study of global history and issues, with an emphasis on Canada, Latin America, and the United States. The course focuses on student inquiry, investigation, and discussion. Students will study a variety of historical periods and events, including World War 2, the Cold War, the modern Americas, authoritarian states, and civil rights and civil liberties, and students will reflect on the global impact of these historical events. This course is designed to promote and enhance a student's critical thinking skills, and to allow students to learn history by investigating multiple perspectives and making comparisons over time.



CTC Course



NCAA



Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

IB Programme

IB Language & Literature Y1



Course	Credits
I918	1

Suggested Grade Level 11-12

Prerequisites: English 9/Adv English 9 and English 10/Adv English 10

This two-year advanced course introduces the critical study and interpretation of diverse texts representing a wide range of literary (novels, poems, plays, short stories) and non-literary (street art, television/film/documentaries, podcasts, photography, advertisements, paintings) genres from across continents and time periods. The formal analysis of texts is grounded in understanding relationships between texts, historical and cultural contexts, and reader experiences. Students will have the opportunity to connect texts to local and global issues, reflect on their own perspectives, and engage in discussions that explore how readers construct meaning. Group collaboration and discussion are essential parts of this course. Students develop skills of literary and textual analysis, and also the ability to present their ideas effectively. Additionally, students keep a comprehensive portfolio that documents their personal inquiries and growth as they explore connections to texts studied in class. Students demonstrate their understanding through a variety of teacher and IB developed assessments. This is a required higher level course for students seeking an IB Diploma (diploma programme).

IB Language & Literature Y2



Course	Credits
I919	1

Suggested Grade Level 12

Prerequisites: I918 IB Language & Literature Y1

This two-year advanced course introduces the critical study and interpretation of diverse texts representing a wide range of literary (novels, poems, plays, short stories) and non-literary (street art, television/film/documentaries, podcasts, photography, advertisements, paintings) genres from across continents and time periods. The formal analysis of texts is grounded in understanding relationships between texts, historical and cultural contexts, and reader experiences. Students will have the opportunity to connect texts to local and global issues, reflect on their own perspectives, and engage in discussions that explore how readers construct meaning. Group collaboration and discussion are essential parts of this course. Students develop skills of literary and textual analysis, and also the ability to present their ideas effectively. Additionally, students keep a comprehensive portfolio that documents their personal inquiries and growth as they explore connections to texts studied in class. Students demonstrate their understanding through a variety of teacher and IB developed assessments. This is a required higher level course for students seeking an IB Diploma (diploma programme).

IB Latin 3



Course	Credits
I959	1

Suggested Grade Level 11-12

Prerequisites: Latin 2

Students in IB Latin will explore universal elements of the human condition through the study of Roman civilization and the great works of Latin literature. Students will focus on how the Latin language creates meaning through diction and style, how the interrelationship between author and audience contributes to meaning, and how texts inform our understanding of historical environments and cultural attitudes. Students will also explore ancient people's attitudes and perspectives relating to a specific topic of each student's personal interest. Ultimately, through the study of the Classical past, students will gain new perspectives on today's world and on the future.

IB Latin 4



Course	Credits
I960	1

Suggested Grade Level 12

Prerequisites: IB Latin 3

Students in IB Latin will explore universal elements of the human condition through the study of Roman civilization and the great works of Latin literature. Students will focus on how the Latin language creates meaning through diction and style, how the interrelationship between author and audience contributes to meaning, and how texts inform our understanding of historical environments and cultural attitudes. Students will also explore ancient people's attitudes and perspectives relating to a specific topic of each student's personal interest. Ultimately, through the study of the Classical past, students will gain new perspectives on today's world and on the future.



International
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CTC Course



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Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

IB Programme

IB Math Applic & Interp HL Y1



Course	Credits
1923	1

Suggested Grade Level 11-12
Prerequisites: Adv Algebra 2

IB Math: Applications and Interpretation HL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Mathematics: Applications and Interpretation HL includes all of the content of the SL course and substantial additional and more complex content in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.

IB Math Applic & Interp HL Y2



Course	Credits
1924	1

Suggested Grade Level 12
Prerequisites: IB Math Applic & Interp HL Y1

IB Math: Applications and Interpretation HL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Mathematics: Applications and Interpretation HL includes all of the content of the SL course and substantial additional and more complex content in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.

IB Math Applic & Interp SL Y1



Course	Credits
1921	1

Suggested Grade Level 11-12
Prerequisites: CP Algebra 1 & CP Geometry

IB Math: Applications and Interpretation SL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Content will include the study of topics in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.

IB Math Applic & Interp SL Y2



Course	Credits
1922	1

Suggested Grade Level 12
Prerequisites: IB Math Applic & Interp SL Y1

IB Math: Applications and Interpretation SL is appropriate for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: Applications and Interpretation will be those who enjoy mathematics best when seen in a practical context. Content will include the study of topics in number, algebra, functions, geometry, trigonometry, statistics, probability, and calculus. Students will complete investigation, inquiry and problem-solving activities including completing an assessment which enables students to undertake a piece of research which interests them and models the type of mathematical activity undertaken in the modern world.



CTC Course



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Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

IB Programme

IB Physics Y1



Course Credits
I935 1

Suggested Grade Level 11-12
Prerequisites: Algebra 2

This rigorous, college-level algebra based course introduces students to the principles that represent humanity's grasp of the entire physical universe. A broader coverage of physics topics is offered than in any other course available from this high school. A strong emphasis is placed on learning through many different methodologies. Students engage with lectures, hands-on experimentation, small group collaborative work and the usage of computer programming to solve complex problems. With a global emphasis, the societal, economic and environmental impacts of applied physics are explored as well as the moral and ethical dilemmas involved. Topics addressed include measurement and uncertainty, Newtonian mechanics, circular motion and gravitation, thermal physics, wave mechanics, electricity and magnetism, atomic/nuclear physics, particle physics, energy production and Einsteinian relativity. This course culminates in an authentic student-designed laboratory research project, preparing students to participate in the post-secondary research process. Students who take this course at the higher level will pursue additional topics in wave mechanics, vector field theory, electromagnetic induction and quantum mechanics.

IB Physics Y2



Course Credits
I936 .5

Suggested Grade Level 12
Prerequisites: IB Physics HL Y1

This rigorous, college-level algebra based course introduces students to the principles that represent humanity's grasp of the entire physical universe. A broader coverage of physics topics is offered than in any other course available from this high school. A strong emphasis is placed on learning through many different methodologies. Students engage with lectures, hands-on experimentation, small group collaborative work and the usage of computer programming to solve complex problems. With a global emphasis, the societal, economic and environmental impacts of applied physics are explored as well as the moral and ethical dilemmas involved. Topics addressed include measurement and uncertainty, Newtonian mechanics, circular motion and gravitation, thermal physics, wave mechanics, electricity and magnetism, atomic/nuclear physics, particle physics, energy production and Einsteinian relativity. This course culminates in an authentic student-designed laboratory research project, preparing students to participate in the post-secondary research process. Students who pursue the higher level will study additional topics in wave mechanics, vector field theory, electromagnetic induction and quantum mechanics.

IB Spanish 1



Course Credits
I963 1

Suggested Grade Level 11-12
Prerequisites:

IB Spanish 1 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.

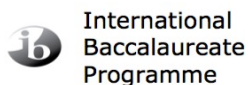
IB Spanish 2



Course Credits
I966 1

Suggested Grade Level 12
Prerequisites: IB Spanish 1

IB Spanish 2 is an advanced language acquisition course designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students learn to communicate in the target language in familiar and unfamiliar contexts. Students focus on exploring the five prescribed themes by practicing a variety of communicative skills including: interpreting simple authentic and adapted written and audio texts and related questions in the target language, expressing information in both writing and in speech, using a range of basic vocabulary and grammatical structures, communicating orally, and responding appropriately.



CTC Course



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Keystone



Weighted Course



Alternating Year Course

Course Number Key

H- Hybrid Y- Year-Long
S- Semester B- Before School
V- Virtual I- IB Programme

IB Programme

IB Spanish 3



Course	Credits
1969	1

Suggested Grade Level 11-12
Prerequisites: IB Spanish 2

In IB Spanish 3, students continue to develop international-mindedness through the study of language, culture, and issues of global significance. The course expands students' ability to examine and appreciate cultural products, practices, and perspectives through a variety of authentic materials from the Spanish-speaking world, including current events, fine arts, film, and technology. Students will apply communication skills in real-life situations such as vocabulary usage, language control, communication strategies, and cultural awareness.

IB Spanish 4



Course	Credits
1955	1

Suggested Grade Level 11-12
Prerequisites: Spanish 3

Students in IB Spanish will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in Hispanic cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Hispanic cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in Spanish.

IB Spanish 5



Course	Credits
1956	1

Suggested Grade Level 12
Prerequisites: IB Spanish 4

Students in IB Spanish will continue to expand on previously learned communicative, cultural, and grammatical concepts by exploration of various cultural contexts in Hispanic cultures and within the student's own culture. Students will learn to recognize and demonstrate an awareness of the interrelatedness of languages, literature, and cultures through knowledge of the artifacts, expressions, and traditions of Hispanic cultures. Students will explore the themes of social organization, the influence of language and culture on identities, human ingenuity, experiences, and sharing the planet while using a variety of strategies to build effective communication in Spanish.

IB Sports, Exercise & Health



Course	Credits
1920	1

Suggested Grade Level 11-12
Prerequisites: Wellness & Bio 1

Sports, exercise and health science (SEHS) is an experimental science course combining academic study with practical and investigative skills. SEHS explores the science underpinning physical performance and provides the opportunity to apply these principles. The course incorporates the disciplines of anatomy and physiology, biomechanics, psychology, and nutrition. Students cover a range of core and option topics, and carry out practical (experimental) investigations in both laboratory and field settings. The course offers a deeper understanding of the issues related to sports, exercise, and health in the 21st century and addresses the international dimension and ethics related to both the individual and global context. SEHS units include anatomy, exercise physiology, energy systems, movement analysis, skill in sports, measurement and evaluation of human performance, psychology of sport, and physical activity and health. This course earns students a .5 credit of Health and a .5 credit of PE.

IB Programme

IB Theory of Knowledge Y1



Course	Credits
I911	1

Suggested Grade Level 11-12

Prerequisites:

This two-year course is the heart of the IB diploma programme and serves as the foundation for building community among learners and connections across courses. The Theory of Knowledge course encourages students to reflect on the central question, "How do we know that?" and to recognize the value of asking that question. The course aims to expose students to ambiguity, uncertainty, and questions with multiple plausible answers; to equip students to effectively navigate and make sense of the world, and help prepare them to encounter novel and complex situations; to encourage students to be more aware of their own perspectives and to reflect critically on their own beliefs and assumptions; to engage students with multiple perspectives, foster open-mindedness, and develop intercultural understanding; to encourage students to make connections between academic disciplines by exploring underlying concepts and by identifying similarities and differences in the methods of inquiry used in different areas of knowledge; and to prompt students to consider the importance of values, responsibilities and ethical concerns relating to the production, acquisition, application, and communication of knowledge. This is a required course for students seeking an IB diploma.

IB Theory of Knowledge Y2



Course	Credits
I912	1

Suggested Grade Level 12

Prerequisites: I911 IB Theory of Knowledge Y1

This two-year course is the heart of the IB diploma programme and serves as the foundation for building community among learners and connections across courses. The Theory of Knowledge course encourages students to reflect on the central question, "How do we know that?" and to recognize the value of asking that question. The course aims to expose students to ambiguity, uncertainty, and questions with multiple plausible answers; to equip students to effectively navigate and make sense of the world, and help prepare them to encounter novel and complex situations; to encourage students to be more aware of their own perspectives and to reflect critically on their own beliefs and assumptions; to engage students with multiple perspectives, foster open-mindedness, and develop intercultural understanding; to encourage students to make connections between academic disciplines by exploring underlying concepts and by identifying similarities and differences in the methods of inquiry used in different areas of knowledge; and to prompt students to consider the importance of values, responsibilities and ethical concerns relating to the production, acquisition, application, and communication of knowledge. This is a required course for students seeking an IB diploma.

IB Visual Arts Y1



Course	Credits
I916	1

Suggested Grade Level 11-12

Prerequisites:

The Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.

IB Visual Arts Y2



Course	Credits
I917	1

Suggested Grade Level 12

Prerequisites: I916 IB Visual Arts Y1

The Visual Arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with, and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.

IB Programme

IB World Religions



Course	Credits
1944	1

Suggested Grade Level 11-12

Prerequisites:

The World Religions course seeks to promote respect for the diversity of religious beliefs, both locally and globally, with the aim of enhancing international and inter-religious understanding. This course will utilize historical and religious facts and experiences in order to engage students in an academic study of world religions. Each year, students will examine five to seven different world religions for the purpose of gaining a greater understanding of diverse religious and cultural perspectives. The course will be organized and structured around three fundamental questions which include: (1) What is the human condition? (2) Where are we going? (3) How do we get there?



International
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Programme



CTC Course



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Keystone



Weighted Course



Alternating Year
Course

Course Number Key

H- Hybrid	Y- Year-Long
S- Semester	B- Before School
V- Virtual	I- IB Programme

General Information

Advanced Courses, Advanced Placement (AP) and International Baccalaureate (IB) Courses

In advanced courses students will be expected to work with greater rigor and at a more challenging pace. To compensate for the difficulty of advanced or AP courses, different point values (weights) are assigned to grades earned in these courses: A = 5, B = 4, C = 3, D = 2, E = 0 points.

<p><u>Art Program</u> Advanced Photography AP Art History AP Studio Art IB Film IB Visual Arts</p> <p><u>Career and Technical Center</u> Advanced Accounting 1 Advanced Accounting 2 Advanced Accounting 3 Advanced Arch Draft & Design 3 Advanced Arch Draft & Design 4 Advanced Automotive Technology 4 Advanced Building Construction 3 & 4 Advanced Coding & Game Development Advanced Computer Engineering Graphics Advanced Computer Programming 1 & 2 Advanced Computer Network & Cybersecurity Advanced Engineering Systems Advanced Engineering Technology Advanced Personal Training Advanced SQL Advanced Stock Invest 2 / Little Lion Fund Advanced Technology Research & Design AP Computer Science Principles</p> <p><u>English Program</u> Advanced English 9 Advanced English 10 Advanced Journalism 2 AP English Language and Composition (11th Gr) AP English Literature and Composition (12th Gr) IB Language & Literature</p>	<p><u>Health / Physical Education</u> IB Sports Exercise & Health Science</p> <p><u>International Baccalaureate</u> IB Theory of Knowledge</p> <p><u>Math Program</u> Advanced Algebra 2 Advanced Geometry Advanced Precalculus Advanced Honors Precalculus Advanced Topics in Mathematics AP Statistics AP Computer Science AP Calculus AB AP Calculus BC IB Math Applic & Interp SL IB Math Applic & Interp HL</p> <p><u>Music Program</u> Advanced Band Advanced Choir Advanced Rock Ensemble Advanced Strings AP Music Theory</p> <p><u>Science Program</u> Advanced Astronomy Advanced Biology 1 Advanced Botany Advanced Chemistry 1 Advanced Chemistry 2 Advanced Earth Systems Sci 1 Advanced Genetics Advanced Geology Advanced Meteorology Advanced Molecular and Cellular Bio Advanced Oceanography</p>	<p>Advanced Physics 1 AET Advanced Topics in Physics Advanced Zoology AP Physics 1+ AP Physics C: Mech, Elect & Magnetism IB Enviro Systems & Soc IB Physics</p> <p><u>Social Studies Program</u> AP African American Studies AP Comparative Government AP European History (Early) AP European History (Recent) AP Human Geography AP Psychology AP US Government and Politics AP US History AP World History IB Business Mgt IB Economics IB History of Americas IB World Religions</p> <p><u>World Language Program</u> Advanced French 4 Advanced German 4 Advanced Spanish 4 AP Chinese Language & Culture AP French Language & Culture AP German Language & Culture AP Spanish Language & Culture IB French IB German IB Latin IB Spanish</p>
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Grade Point Average

A student's grade point average (GPA) is determined by multiplying the point value of the grade earned in each subject by the credit for the course. Point values are assigned to grades as follows: A = 4 points, B = 3 points, C = 2 points, D = 1 point, and E = 0 points. One additional point is awarded for Advanced and Advanced Placement courses. The total number of points is then divided by the total number of credits. The GPA's are determined at the end of each semester. The GPA is a cumulative average beginning when a student first enrolls in a high school class.

The following examples show how to compute GPA:

<u>9th Grade</u>	<u>Mark</u>	<u>(Point Value) X</u>	<u>10th Grade</u>	<u>Mark</u>	<u>(Point Value) X</u>
		<u>Course Credit</u>			<u>Course Credit</u>
Adv English 09	A	(5) x 1.00 = 5.00	Adv. English 10	A	(5) x 1.00 = 5.00
Adv World History	C	(3) x 1.00 = 3.00	World History 2	B	(3) x 1.00 = 3.00
Earth Systems Science 1	B	(3) x 1.00 = 3.00	Biology 1	A	(4) x 1.00 = 4.00
Algebra 1	B	(3) x 1.00 = 3.00	Geometry	A	(4) x 1.00 = 4.00
Phys Ed 09	C	(2) x 0.5 = 1.00	Phys Ed 10	B	(3) x 0.5 = 1.50
Health	B	(3) x 0.5 = 1.50	Driver Education	A	(4) x 0.2 = 0.80
French 1	C	(2) x 1.00 = 2.00	Spanish 2	C	(2) x 1.00 = 2.00
Typing 1	B	(3) x 0.5 = 1.50			
TOTALS		20.00 divided by 6.50 credits = 3.0769			20.30 divided by 5.70 credits = 3.5614

Besides helping a student to be more competitive for entry to post high school opportunities, a student with a high GPA enjoys other benefits. For example, GPA is the basis for many high school honors.

Honor Roll: Honor Roll GPA of 3.50 or higher, the student will be listed as receiving High Honors, GPA of 3.0 – 3.49, the student will be listed as receiving Honors. Calculation is based on using a weighted GPA for the current year courses with the requirement that all marks are C- or higher. If the student received a grade of D, E, or I, for ANY marking period, he/she will not be eligible for Honor Roll for the current school year.

Rank in Class

Rank in class is not reported as part of the student transcript. A student's individual class rank may be obtained by written request to the Counseling Office.

Course Cancellation Policy

If a course is canceled as a result of low enrollment, students will be assisted in selecting an alternative course.

Grading Options

Pass –Fail Grade (P or F)

A pass-fail grading system may be used only:

If the course is designated as pass-fail in this Course Selection Guide.

If a prearranged independent contract for a student in Special Education, Course by Appt. or Learning Enrichment Chapter 6 option includes a pass-fail grading option and approval is granted by an administrator.

BYU/Keystone Enrichment are graded as Pass/Fail

When a pass-fail option is used, a pass will result in counting the course credit for graduation, but not for GPA calculation.

Audit

The decision to audit a course must be approved by the teacher before the 5th week of a semester course or 10th week of a full year course. The student will do all of the required work for the course. No final cumulative grade or credit will be awarded for a course audit. If the student is not completing the required work the student will be removed from the course.

Course Transfer Policy

Procedure in review, please check 22/23 Course Guide on our website for updates. <http://www.scasd.org/Page/16701>

*Students will not be permitted to transfer from a non-advanced course to an advanced course beyond the 2nd week of school without receiving teacher and administration approval.

Grade for Repeated Course

When a student gets an E, the student may repeat/remediate the same course of a District approved equivalent course (and District virtual course). Both grades count toward the GPA and both grades will be on the transcript.

Grade for Course Taken Prior to 9th Grade

SCAHS classes taken prior to entering 9th grade will appear on the SCASD HS transcript but will not be calculated in the GPA. This is true for any high school level courses taken in another school district prior to the 9th grade.

Student Activities

As students decide which courses they wish to take each year, they should also consider participation in extracurricular activities. For many students, these activities provide opportunities and experiences which not only make high school more enjoyable, but also influence and sometimes determine future choices in both education and career paths. This listing gives some idea of the range of activities offered. Further information is available through the Student Activities Office of the high school.

Acclivity Club Artist Residency Club Astronomy Club* Auto Club (CTC club) Battle of the Bands (event) Best Buddies Book Club Broadcasting Club - WSCH Chemistry/Physics Club* Chess Club Dance Team D.E.C.A. (CTC club) Disc Golf Club* Diversity and Activism Club Empowher Environmental Club F.F.A., State College Little Lions (CTC club) Fine Art Club Fitness Center Club Forensics Club French Club Future Business Leaders of America (CTC club) Gaming Club* German Club Girls Rugby Hack Club* Health Occupations Students of America (CTC club) Ice Hockey Club Sport	Italian Club* Interact Club Key Club Latin Club Lesbian, Gay, Bisexual, Transgender Alliance+ Little Lion Ambassadors Music Activities: ♪ Chamber Singers, Concert Choir, Master Singers, Ninth Grade Choir, Tenth Grade Choir, Concert Band, Jazz Band, Marching Band, Ninth Grade Band, State Band, Symphonic Band, Tenth Grade, Band, Jazz Band 2, Ninth Grade Orchestra, String Orchestra, Orchestra, SHA-capella, Musical Pit Orchestra Majorettes / Color Guard / Silks Math Club Mini-THON* Mock Trial Model United Nations Club Music Ensemble Club* My Mental Health Matters National Honor Society National Arts Honor Society National Home Builders Assoc. (CTC club) National Technical Honor Society (CTC club) Ocean Bowl Outing Club Pen 2 Pal*	Philosophy Club* Pottery Club Quiz Bowl Racquet Sports Club* Renaissance Faire (event) Rock Ensemble Rugby Club Sport Science Bowl Science Olympiad Set Design/Construction Ski Club Skills USA (CTC club) Spanish Club Stage Crew State High Anglers' Club* State High Publications – Lion's Digest & Little Lion Yearbook Student Government Student Senates Class of 2024 – Seniors Class of 2025 – Juniors Class of 2026 – Sophomores Class of 2027 – Freshmen Technology Student Association (CTC club) Thespians Tri-M Music Honor Society Winterguard* Work Experience Club (CTC club) Yoga Club*
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* Unofficial Clubs

Music Performing Ensembles

CHOIR

9th Grade Choir
 10th Grade Choir - Upper Voices
 10th Grade Choir - Lower Voices
 Concert Choir - Upper Voices (Gr. 11-12)
 Concert Choir - Lower Voices (Gr. 11-12)
 Adv Choir/ Master Singers (Gr. 10-12)
 Chamber Singers (Gr. 11-12)
 Treble Makers (Gr. 9-10)

BAND

9th Grade Band
 10th Grade Band
 Concert Band (Gr. 11-12)
 Adv Band /Symphonic Band (Gr. 10-12)
 Jazz Band (Gr. 9-12)
 Jazz Band 2 (Gr. 9-12)
 Marching Band (Gr. 9-12)

ORCHESTRA

9th Grade Orchestra
 Chamber String (Gr. 10-12)
 Concert Strings (Gr. 10-12)
 Adv Strings (Gr. 10-12)

ROCK

Rock Ensemble(Gr. 9-12)
 Adv Rock Ensemble(Gr. 10-12)

P.I.A.A. Affiliated Interscholastic Athletics, 9 – 12th Grades

Male

Baseball	Soccer
Basketball	Swimming & Diving
Cross Country	Tennis
Football	Track & Field
Golf	Volleyball
Lacrosse	Wrestling
Indoor Track	

Female

Basketball	Soccer
Cheerleading	Softball
Cross Country	Swimming & Diving
Field Hockey	Tennis
Golf	Track & Field
Lacrosse	Volleyball
Indoor Track	Wrestling

To be eligible for interscholastic athletic competition, a student must meet all Pennsylvania Interscholastic Athletic Association and State College Area School District current requirements. Questions about those specifics can be directed to the school district's Director of Athletics.

Intramural Athletics, 9 – 12th Grades

All S.C.A.H.S. students are eligible to participate in intramurals. Tentative offerings include the following.

Basketball

Bowling

Skiing

Information regarding intramurals is announced through the public address morning and special announcements in a timely manner. Specific questions may be directed to the school district's Director of Athletics.

The State College Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, age, creed, religion, gender, sexual orientation, gender identity, ancestry, national origin or disability in its activities, programs, or employment practices as required by Title VI, Title IX, Section 504, and Americans with Disabilities Act. For information regarding civil rights, grievance procedures and services, or activities and facilities that are accessible to and usable by persons with disabilities, contact the Compliance Officer, State College Area School District, 240 Villa Crest Drive, State College, PA 16801, (814) 231-1051.