











STRATH HAVEN HIGH SCHOOL
24-25 SILVER GUIDE

SHHS

SILVER GUIDE 24-25

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Course Selection Schedule of Events

8th grade Course Registration	
Tuesday, February 27, 2024	8th grade teachers finalize course and level recommendations
Thursday, February 29, 2024	8th grade parent orientation at the high school 6:15-7:00 - Open House with Department Chairs 7:00 pm - Presentation by SHHS Principal, Dr. Hilden
Friday, March 1, 2024	High school counselor visitations to 8th grade social studies classes. High school music teacher visitations to 8th grade music classes. PowerSchool goes live for course selection.
March 1-March 11, 2023	Online registration of electives by 8th grade students. Portal closes at 8:00AM on March 11, 2024.

9th-11th grade Course Registration	
January 22, 2024	Fall Course/Level Recommendations due
February 8, 2024	Home and School Meeting: Scheduling and Course Selection
February 9, 2024	Delaware County Technical High School presentation for all 9th and 10th grade students. The representative will be available at all lunches to speak with students. Any juniors who are interested in attending should make a request through the counselor. **Interested students should communicate with counselors about arranging a DCTS visitation*
February TBD	DCIU Representative from the Medical Careers Program presentation (5th block; library)
February 16, 2023	Spring Course/Level Recommendations due; Verified
February 20, 2023	Scheduling Assemblies (AM Assembly Schedule; 9th and 10th only) DCTS - Applications for 23-24 School Year Due February 29, 2024 PowerSchool goes live for course selection.
February 21-23, 2024	Counselor visits to junior SS/English classes
February 21-23, 2024	Counselor visits to 9th and 10th grade English classes
February 26-March 1	Counselors: 5th block Drop In Course Registration Meetings Student/Parent - Open Zoom sessions
March 11, 2024	Portal closes for student registration Final date for teachers/counselors to make changes to student recommendations
March 11 -March 31, 2023	Scheduling analysis and staffing review
April -May 2024	Schedule built; no schedule changes permitted during this window of time.
Summer 2023	Schedule reviewed, modified, and finalized

COURSE REGISTRATION AND ACADEMIC REGULATIONS

MAKING NEXT YEAR'S COURSE SELECTIONS

Beginning each year in late January, Strath Haven High School students select courses for the following school year. This process involves teacher recommendations, parental input, counselor advice, and student choice. Decisions made through the registration process are extremely important because staffing and course offerings are predicated on the choices that students make in relation to the deadlines provided.

- All students must make their course selection decisions in the designated window.
- Choices must be considered final at the conclusion of the course selection window. **Adjustments to courses will be made only when the selection cannot be accommodated due to over enrollment or conflicts with core courses.**

CREDIT DISTRIBUTION REQUIREMENTS

English	5 credits
Social Studies	4 credits
Math	4 credits
Science	4 credits
World Language*	3 credits
Fine and Applied Arts, Business, Computer Science*	3 credits
Health and Physical Education	2 credits
Other Credits	4 credits
TOTAL	**29 CREDITS**

No courses taken prior to ninth grade will be reflected on the high school transcript or the high school grade point average.

Students are required to complete a minimum of five (5) total credits in World Language and either Fine and Applied Arts, Business and/or Computer Science, with a required combination of three in one discipline and two in the other. Specifically, a student can take two World Languages and three Applied Arts or three World Languages and two Applied Arts while in Strath Haven High School.

Students in their 11th or 12th grade year may enroll in up to two (2) credits in the areas of Independent Study, college courses, accredited online courses, Field Career or Cooperative Education.

SCHEDULING COURSES TO MEET CREDIT REQUIREMENTS

Our school schedule allows for eight credits per academic year, plus the option to include a fifth block music elective. Students are required to enroll in eight courses per year:

Grade Level	Minimum Requirement: 8 credits per year
9th Grade	English, Math, Social Studies, Science, Health/PE, World Language, and one elective*
10th Grade	English, Math, Social Studies, Science, Health/PE, World Language and two electives*
11th Grade	English, Math, Social Studies, Science. World Language**, and three electives*
12th Grade	English, Math, Social Studies, Science, World Language** and four electives*

*A summary of **Elective Courses** is linked here. Elective courses color coded in blue count toward Arts, Business, and Computer Science credit distribution.
**World Language courses are a requirement until the graduation distribution has been met.

COURSE LEVELS

Students and their parents/guardians, supported by feedback from teachers and counselors, decide an appropriate program of studies. Except in courses that have prerequisites, students are not restricted from particular courses.

College Preparatory (CP)

College Preparatory courses prepare students to develop necessary skills to make progress toward post-secondary goals. These courses encourage students to become self-directed learners while receiving necessary support and structure from the classroom teacher.

Honors (H) Honors classes offer enriched and accelerated experiences. They require greater self-direction on the part of the student to budget time and manage academic workload than a College Preparatory course.

Advanced Placement (AP)

Advanced Placement courses follow prescribed AP curricular guidelines set by the College Entrance Examination Board. Strath Haven High School requires students who enroll in Advanced Placement courses to take the end-of-course AP exam administered in May each year. Students are expected to pay for the exam fee but may request financial assistance.

COURSE PREREQUISITES

Course prerequisites are noted in the course description section of this Silver Guide. Students who have not met all prerequisites for a course or are not in the appropriate grade level will not be eligible to enroll in that course. Teachers and school counselors cannot override or waive course prerequisites. If a student is found to be enrolled in a course for which they do not qualify, the course will be removed and replaced with the appropriate alternative course in the students' schedule.

CHANGING LEVELS/CHANGING COURSES

Students may request a level change after a course has started. The decision to change level will be made in consultation with the student, parent/guardian, counselor, and classroom teacher. These guidelines will apply:

Students who request **a total course change** (ie. drop Calculus and add Statistics)	This change must be done within the first week of the semester and is subject to availability of seats in the desired course. Students are responsible for all coursework in the new class, including any assignments or assessment before they were registered for the course.
Student changes level in the same course **within the first three weeks of class**	This change must be done within the first three weeks of the semester and is subject to availability of seats in the desired level. The grade from the original course is not recorded. Students are responsible for all missed material and assignments covered in the new class.
Student changes level in the same course **after the first three weeks of class**	The grade from the original course travels with the student in direct proportion to the time spent in the higher level class. Students are not required to complete all of the assignments completed prior to their arrival in the course they are transferring into; however, students are responsible for understanding all missed material.
Dropping a class in the **second half of the semester*** *with administrative approval	Students can only drop a class in the second half of the semester with administrative approval. Students will be assigned a grade of "Withdraw Failing" (WF) or "Withdraw Passing" (WP). Withdraw Failing will be treated as an attempted credit when GPA is calculated; "Withdraw Passing" will not. Both "Withdraw Failing" (WF) or "Withdraw Passing" (WP) however, will appear on the final transcript.

REPEATING A COURSE

Three options are available to repeat a course:

- Students can repeat the course at Strath Haven High School during the regular school year.
- Students can complete Strath Haven High School's summer school program.
- Students can complete a credit recovery course through a pre-approved program.

The transcript will reflect the following when a student repeats a course.

A student wishes to improve a grade of D or F and takes the repeated course at Strath Haven High School.	The original course grade earned by the student will be listed along with an asterisk noting that the course will be repeated. The original course grade will not be included in GPA. No credit is received for the original course; credit for the original course is forfeited. The new course grade **will be** calculated into the GPA.
A student wishes to improve a grade of D or F and takes a course with the SHHS Summer Program (at no cost to qualifying students).	The original course grade earned by the student will be listed along with an asterisk noting that the course will be repeated. The original course grade will not be included in GPA. No credit is received for the original course; credit for the original course is forfeited. The new course–which will be noted as credit recovery in the course title– **will not be** calculated into the GPA but will be given credit towards graduation.
A student wishes to improve a grade of D or F and takes a pre-approved SHHS recovery course from a provider vetted in advance by the District (at the student/family's expense).	The original course grade earned by the student will be listed along with an asterisk noting that the course will be repeated. The original course grade will not be included in GPA. No credit is received for the original course; credit for the original course is forfeited. The new course–which will be noted as credit recovery in the course title– **will not be** calculated into the GPA but will be given credit towards graduation.

GRADE POINT AVERAGE (GPA)

Strath Haven High School computes grade point averages at the conclusion of grades 9, 10, 11, and midyear in grade 12. Grades are not weighted and students are not ranked. Any GPA greater than a 4.0 is rounded to a 4.0.



HIGH SCHOOL TRANSCRIPT

Only courses taken at Strath Haven High School during ninth through twelfth grade are factored into the high school transcript and grade point average. No courses taken prior to the scheduled ninth grade year will be included on the official transcript.

STUDENTS WHO ASPIRE TO PLAY DIVISION I or II COLLEGIATE SPORTS

Students who aspire to play sports at the college level athletics are required to meet **eligibility requirements** through the NCAA Clearinghouse. Interested students should meet with their school counselor during the open registration period to ensure that all necessary requirements are being fulfilled.

STANDARDIZED ASSESSMENTS

Below is a list of possible standardized assessments students will take throughout high school. Not all exams are appropriate for all students. Students are encouraged to consult with their school counselor to determine which assessments are best suited for their post secondary goals.

Grade 9 **Keystone exam** (if enrolled in Algebra I or Biology) **AP Exams** (Advanced Placement)*	**Grade 10** **Keystone Exam** (if enrolled in Algebra I, Biology and/or English 10) **PSAT** (Preliminary Scholastic Aptitude Test) **PreACT** (Practice American College Test) **AP Exams** (Advanced Placement)*
Grade 11 **PSAT/NMSQT** (Preliminary Scholastic Aptitude Test/National Merit Scholar Qualifying Test) **SAT** (Scholastic Assessment Test) **ACT** (American College Test) **ASVAB** (Armed Services Vocational Aptitude Battery) **NOCTI** (National Occupational Competency Testing Institute) **AP Exams** (Advanced Placement)*	**Grade 12** **SAT** (Scholastic Assessment Test) **ACT** (American College Test) **ASVAB** (Armed Services Vocational Aptitude Battery) **NOCTI** (National Occupational Competency Testing Institute) **AP Exams** (Advanced Placement)*

* Required for students enrolled in AP (Advanced Placement) courses.

PROGRAMS REQUIRING ADMINISTRATIVE APPROVAL

Click on the title of the program to be routed to the approval form. Study abroad does not require a building-based approval form.

STUDY ABROAD PROGRAMS

In the event that a student seeks and is approved to participate in an extended exchange or study abroad program (full or half year), the student and parent/guardian should initiate a meeting with administration and the school counselor to determine an academic plan that will allow the student to meet Strath Haven High School graduation requirements. Strath Haven High School reserves the right to determine credit status and grading policy in advance for any course of study taken abroad.

NON-SHHS COURSES

Students considering taking a course elsewhere should seek guidance in advance of the start of the course. While an approved course from another educational institution may enable a student to meet a prerequisite, that course from an outside provider does not count as a Strath Haven credit and is not listed on a student's transcript. The student is responsible for tuition and transportation. **Courses at other educational institutions may not replace a required Strath Haven course.**

DELAWARE COUNTY COMMUNITY COLLEGE

Students may be eligible to take classes at Delaware County Community College as a dual enrolled student if they meet the requirements determined by the college and Strath Haven High School. Students must have exhausted course offerings in a discipline at Strath Haven, meet specific grade point average and attendance requirements as outlined in the linked building-based approval, and be in good disciplinary standing. Students who participate in these programs receive both high school and college credit.

COLLEGE COURSES AT SWARTHMORE COLLEGE

Students who are exceptionally well-qualified may be granted permission to take a course at Swarthmore College for high school credit. Per our articulation agreement with Swarthmore College, there is no tuition charged; however, students are responsible for the cost of books and for

providing their own transportation. Interested students must meet with their counselor prior to enrolling in any course at Swarthmore College to determine eligibility.

FIELD CAREER
Grade 11 and 12
9260: One Semester
1.0 Credit
9270: Full Year2.0 Credits
Field Career is an opportunity to learn, on a practical level, about the skills and demands usually associated with professional or service-type occupations. Students work on a volunteer basis with different employers in the area. In exchange for the student's work, the employer promises to teach the students about what is required to enter that f field, the work demands, and the rewards. Students will be supervised by the School Counselor to receive credit.

COOPERATIVE EDUCATION
Grades 11-12
9210: One Semester
1.0 Credit
9220: Full Year2.0 Credits
Cooperative Education is an opportunity to learn, on a practical level and theoretical level, about the skills and demands usually associated with professional or service-type occupations, earning credit and income simultaneously. Students are expected to have a job placement arranged prior to the start of the semester in which they are seeking to earn credit.

PENNSYLVANIA STATE GRADUATION REQUIREMENTS

KEYSTONE PROFICIENCY

Chapter 4 Rules and Regulations for the state of Pennsylvania require that students demonstrate proficiency on the Algebra 1, Biology and Keystone Literature Exams in order to graduate. Keystone Exams assess the proficiency of the Pennsylvania Core Standards, which are standards aligned with expectations for successful post secondary experiences such as college and the workplace. Students will be offered multiple opportunities to take the Keystone Exams throughout high school.

Beginning with the Class of 2023, Act 158 provides Alternate Pathways to Graduation for students who do not meet proficiency requirements on the Keystone exams. See pages 6 and 7 of this guide for further information regarding alternative pathways.

CAREER AND COLLEGE READINESS INDICATOR

To help ensure that all students in Pennsylvania are on track for meaningful postsecondary engagement and success, the Pennsylvania Department of Education has included a measure of students' career exploration, preparation, and readiness as part of Pennsylvania's state and federal accountability system.

The Career and College Readiness Indicator recognizes efforts to ensure that all students have access to career exploration and preparation activities that are standards-aligned and evidence-based, including the development of career plans and portfolios that help students identify pathways and opportunities for postsecondary success.

Through a variety of curricular and extracurricular opportunities that students can complete throughout grades 9-11 and incorporate into the Career and College Readiness Portfolio. By the end of grade 11, a Strath Haven High School student will have a career portfolio containing both the K-5 and 6- 8 grade band evidence, and an additional eight pieces of evidence, or at least two pieces of evidence each year, collected in the 9-11 grade band that validates all four standards (Career Awareness and Preparation, Career Acquisition, Career Retention and Advancement, and Entrepreneurship) have been meaningfully addressed. Students will use Naviance to store individual artifacts.

Although students will likely accumulate those pieces through their normal coursework, students are ultimately responsible for ensuring that they have collected 8 pieces of evidence during grades 9 - 11.

Pathways to Graduation

STRATH HAVEN HIGH SCHOOL

Act 158 of 2018 prescribed multiple pathways for students to meet Pennsylvania's assessment requirement for graduation. The state released criteria for alternate assessments in spring 2020. These requirements impact the **class of 2023** and beyond.

Contacts

Questions about students' progress toward graduation requirements: contact your student's counselor or case manager directly:

Dunning: kdunning@wssd.org / x2113
Smith: rsmith2@wssd.org / x2112
Salvage: jsalvage@wssd.org / x2114
Edwards: tedwards@wssd.org / x2118

Questions about **Keystone Testing** dates, scores, and reporting and Act 158 pathways:

Tabatha Duffy
Assistant Principal, SHHS
tduffy@wssd.org / x2109

THE PROCESS

- Student takes the appropriate **Keystone exam** while enrolled in each Keystone course (Algebra I, English 10, and Biology).
- Once Keystone scores are received, the testing coordinator communicates with counselors and case managers (if applicable).
- Students are offered the opportunity to retake Keystones in which they did not earn proficiency. **Note:** Retakes are only possible until the end of the 11th grade year.
- Students who elect to pursue an alternative pathway must submit this request by the end of the 1st semester of their junior year.
- If applicable, a team meeting will be held to discuss student's options, progress, and action items to complete.
- During the fall of students' senior year, they will be informed if they are not on track to satisfy state graduation requirements.

1 KEYSTONE PROFICIENCY PATHWAY

- **Proficient or Advanced** in Algebra I
- **Proficient or Advanced** in Biology
- **Proficient or Advanced** in Literature

All eligible students are scheduled to take the requisite Keystone exams while enrolled in each Keystone course: Advanced Algebra I, Biology, and English 10. Students who have missed taking a Keystone will be scheduled during the next available administration.

Can we decide to pursue an alternative pathway instead of having our child sit for the Keystone exams?
The only permissible reason for opting out of Keystone exams according to PDE is for **religious reasons**. If you have a religious objection to the Keystone exams, you may complete the opt-out process for your student. Directions and forms are available on the WSSD assessment page.

2 KEYSTONE COMPOSITE PATHWAY

- **Proficient or Advanced** on at least one test
- **Basic** or higher on the other two tests
- **Combined score** of at least 4452

KEYSTONE EXAM CUT SCORES

EXAM	BELOW BASIC	BASIC	PROFICIENT	ADVANCED
ALGEBRA I	**1200-1438**	**1439-1499**	**1500-1545**	**1546-1800**
BIOLOGY	**1200-1459**	**1460-1499**	**1500-1548**	**1549-1800**
LITERATURE	**1200-1443**	**1444-1499**	**1500-1583**	**1584-1800**

3 CAREER AND TECHNICAL EDUCATION PATHWAY

Student must meet local requirements for academic content covered by the Keystone exam for all subjects where they did not meet exam proficiency. In other words, they must **pass** Keystone courses.

+

Attain an industry-based competency certification related to the career and technical education (CTE) concentrator's program of study.

OR

Demonstrate a high likelihood of success on an approved industry-based competency assessment or readiness for continued engagement in the CTE program of study.

SHHS

4 ALTERNATE ASSESSMENT PATHWAY

Student must meet local requirements for academic content covered by the Keystone exam for all subjects where they did not meet exam proficiency. In other words, they must **pass** Keystone courses.

Attain an established score on an approved alternate assessment for each subject where the student did not earn proficiency. Approved alternate assessments are:

- Advanced Placement Exam: **3 or higher**
- Preliminary Scholastic Assessment Test (PSAT): **970**
- Scholastic Assessment Test (SAT): **1010**
- American College Testing (ACT): **21**
- ACT WorkKeys: Gold Level
- Armed Services Vocational Aptitude Battery (ASVAB) minimum score required to gain admittance to a branch of the armed services in the year student graduates

ALGEBRA EQUIVALENT
Calculus AB, Calculus BC, Computer Science A, Computer Science Principles, Statistics, Physics C, Chemistry

AP EXAMS

LIT EQUIVALENT
Language & Composition
Literature & Composition

BIO EQUIVALENT
Biology, Environmental Science, Chemistry, Physics C

OR

DUAL ENROLLMENT
Successfully complete a dual enrollment course in an academic content area associated with each Keystone exam in which the student did not achieve proficiency:
- Must be a credit-bearing, non-remedial approved concurrent course.
- Content must be aligned to respective Keystone exams.
- High school or college transcript may be used as evidence.

PRE-APPRENTICESHIP PROGRAM
Successfully complete a pre-apprenticeship program: specific career training designed to prepare a student for an occupation in an approved schedule of related instruction. The program must be registered with the Director of Apprenticeship and Training Office at the Pennsylvania Department of Labor and Industry. Student and program must meet all pre-apprenticeship program and industry requirements.

4-YEAR HIGHER ED ACCEPTANCE
Be accepted in an accredited 4-year, nonprofit institution of higher education and have evidence of the ability to enroll in college level coursework.
- Acceptance letter from accredited, 4-year nonprofit institution
- Placement test results showing student's ability to enroll in college-level courses
- Local profile of acceptable high school GPA, attendance record, SAT/ACT score

5 EVIDENCE-BASED PATHWAY: THREE PIECES OF EVIDENCE NEEDED

SECTION 1: AT LEAST ONE OF THE FOLLOWING

- Meet or exceed the established score of Silver Level or higher on the ACT WorkKeys NCRC.
- 3 or higher on **any** Advanced Placement (AP) course exam consistent with the student's goals and career plans.
- 3 or higher on any International Baccalaureate (IB) Programme Exam
- Passing grade in any approved concurrent enrollment course
- Passing grade on any college-level course
- Earn an industry credential aligned to the student's goals and career plans
- Acceptance into an accredited nonprofit institution of higher education other than a 4-year IHE

SECTION 2: TWO PIECES OF EVIDENCE MAY COME FROM THIS CATEGORY

- Earn a scaled score of proficient or better on any Keystone exam
- Successfully complete a service-learning project of sufficient duration and intensity to address identified community needs and meet specified project learning goal(s).
- Complete an internship, externship, or cooperative education program, as evidenced by locally established documentation. Career & Technical Education Programs must comply with related federal and state laws and regulations.
- Comply with NCAA's Division II core courses for college-bound student athletes, with a minimum GPA of 2.0 or the equivalent on an alternate grading scale.
- The student must provide documentation guaranteeing sustained full-time employment: averaging at least 30 hours per week, or 130 hours per month, or multiple jobs that, in aggregate, are reasonably commensurate with full-time work.

Who is responsible for helping my child determine and execute an appropriate pathway?
Counselors as well as a student's special education team (which includes student, guardian, case manager, and may include a school administrator) can collaborate to ensure that each student satisfies state graduation requirements in a timely manner and through a pathway that best meets each student's career and educational goals. If you have specific questions about your student's pathway options, please contact their counselor.

Who is responsible for ensuring that my child completes their graduation requirements?
While other individuals will provide support, it is ultimately the responsibility of each student to ensure that they fulfill their graduation requirements.

TWO-SCORE COMPOSITE: Students who earned a **non-numeric proficient** on a Keystone exam may be eligible to graduate using the two-score composite pathway.

Business, Engineering, and Technology Department

All courses in this department will be credited toward the Fine and Applied Arts, Business and Technology requirement for graduation..

Beginning in the 19-20 school year, students may apply a computer science course toward their math or science graduation distribution. In order to apply a computer science course toward either math or science credit, the student must have successfully completed two credits in that area of study.

TECHNOLOGY and ENGINEERING

Communication Systems

6530	Computer Animation	1.0
6540	Computer-Aided Drafting and Design (CADD) 1	1.0
6550	Computer-Aided Drafting and Design (CADD) 2	1.0

Manufacturing/Construction Systems

6600	Principles of Engineering	1.0
6650	Wood I	1.0
6660	Wood II	1.0
6670	Advanced Wood III	1.0

Other Technologies

6730	Robotics	1.0

COMMUNICATION SYSTEMS

Computer Animation (1.0 credit)

6530	Grades 9-12

This entry-level course is offered to students who would like a Technology & Engineering elective with an emphasis in the world of 3D computer animation. Autodesk 3ds Max is the industry standard for feature length animated films, as well as, CGI animations that contain computer generated graphics alongside live-action acting. Students will learn to work with the various tools for 3D modeling, animation, rendering, compositing and pre-production planning. The course will also introduce more advanced topics such as applying materials and lighting scenes, animating cameras and objects, assembling short sequences, and avoiding long render times. This course is for the student who might be considering a career in computer animation or video game design.

Engineering and Architecture I: Computer-Aided Drafting and Design (1.0 credit)

6540	Grades 9-12

In Computer-Aided Drafting and Design, students learn to use drafting and design computer software programs and apply them to a variety of drawing and design situations. After a computer hardware/software orientation, students learn to read and draw several types of technical drawings. This information is then applied to the design process as students work individually and in groups on a number of architectural and engineering design activities. Students play the role of professional designers and planners who create design solutions to clients' problems. This course is a major benefit to students who plan to pursue any technical careers and those who plan to become drafters, engineers, designers, or architects.

CADD II: Computer-Aided Drafting and Design (1.0 credit)

6550	Grades 9-12

CADD II is a college-level course that expands the students' knowledge in today's drafting and design techniques in 2D work and 3D modeling, and exposes students to additional CADD and rapid prototyping software. This course provides students with the concepts and skills necessary to form the basis of object visualization and documentation inherent to the creation and conveying of technical designs and drawings. Appropriate drafting concepts and skills are developed through use of both free-hand sketching and

computer-assisted drafting. Instruction in the use of CADD systems is integrated with graphic theory throughout the course. The course covers theoretical and applied drafting concepts appropriate for conveying graphical representation of objects and designs in a variety of technical environments including manufacturing and construction, as well as architectural, mechanical and civil engineering design.

This is a dual enrollment course that will allow students to earn 6 college credits for the Delaware County Community College TCC 112 & TCC122 courses.

PREREQUISITE: Computer-Aided Drafting and Design 1 and Instructor Approval

MANUFACTURING/CONSTRUCTION SYSTEMS

Wood Tech 1 (1.0 credit)

6650 Grades 9-12

This course affords the student the opportunity to investigate concepts of manufacturing and construction. The course will provide experiences in a wide range of processes, such as planning, layout, cutting, bending, shaping, drilling, fastening, and finishing with an assortment of materials and tools. Students are required to design and produce a prototype/project with a design team or individually.

Wood Tech 2 (1.0 credit)

6660 Grades 10-12

This course permits students to utilize and enhance individual skills acquired in Materials and Manufacturing Technology 1. Students design an individual, mass production, or group production project. Students are encouraged to explore various techniques and methods as dictated by their product/product designs.

PREREQUISITE: Wood Tech 1.

Advanced Wood Tech 3 (1.0 credit)

6670 Grades 10-12

In this course, students independently explore concepts and processes from the previous prerequisite courses. Students are expected to work individually or in design teams to design, plan, and produce a prototype for mass production or a custom-designed project.

PREREQUISITE: Wood Tech 2.

Robotics (1.0 credit)

6730 Grades 9-12

Explore robotics in a hands-on learning environment designed to engage students in learning the practical application of science, technology and engineering. Upon completion of the course, students will have a fundamental understanding of robotics' systems. Additionally, students will have a thorough understanding of the SHHS robots that have received recognition at the regional and national F.I.R.S.T. competitions. The robotics lab will be equipped with various modules and equipment in order to provide students with hands-on activities in areas of robotic control, electronics, basic programming, CNC manufacturing, CADD (computer aided drafting and design), mechanisms, pneumatics and structural engineering. Utilizing techniques of problem-solving, teamwork and project management, along with the knowledge of the aforementioned modules/units, students will create a remote controlled machine capable of performing designated tasks or playing a game designed by the students and/or teacher.

Engineering Essentials (1.0 credit)

6600 Grades 9-12

Engineering Essentials prepares students to understand and apply technological concepts and processes that are the cornerstone for the study of engineering. Group and individual activities engage students in creating ideas, developing innovations, and engineering practical solutions. Students will explore how engineers make a difference and improve lives, while using modern engineering tools, such as 3-D solid modeling software and prototyping equipment. The survey course introduces students to a variety of engineering disciplines including, environmental, mechanical and electrical. Students learn and apply the engineering design process to develop solutions to relevant problems across a variety of industry sectors. In addition, the

course emphasizes computational methods that are commonly used in engineering problem-solving.

COMPUTER SCIENCE

Intro to Computer Science (1.0 credit)

6330	Grades 9-12

This course will introduce students to the fundamentals of computer science, with a focus on basic programming control structures. Additionally, this course seeks to provide knowledge and skills to meaningfully participate in our increasingly digital society, economy, and culture. As a culminating project, students will create a large app, game, or physical computational artifact using a coding or programming language.

Advanced Video Game Design (1.0 credit)

6370	Grades 10-12

In this self-paced course, the world of computer games will be explored through hands-on applications and modern programming techniques. Students will develop their own game from initial idea through finished product. Students will also learn how to manipulate objects through user input, how to use a camera, and how to manipulate lights in a computer game environment. Students will build a shareable computer game, including sound, graphics, and collision detection.

PREREQUISITE: Intro to Computer Science or AP Computer Science Principles, although exceptions will be made for students demonstrating certain programming skills and/or experiences in the Video Design environment.

AP Computer Science Principles (1.0 credit)

6342	Grades 9-12

AP Computer Science Principles will introduce you to programming but will also give you an understanding of the fundamental concepts of computing, its breadth of application and its potential for transforming the world we live in. You will experience the beauty and joy of computing. Bring your interests and passions to this course, so you can solve problems and express creativity.

PREREQUISITE: Students in grade 9 must have recommendation from 8th grade computer science and literacy teacher.

AP Computer Science A (1.0 credit)

6341	Grades 10-12

This course will emphasize object-oriented programming methodology with an emphasis on problem-solving and algorithmic development and is meant to be the equivalent of a first-semester course in college computer science. It will also include the study of both static and dynamic data structures, abstraction, and recursion. After completing this course, students should be able to:

- Write code in JAVA programming language
- Understand and use object-oriented programming with appropriate data structures to solve problems
- Successfully complete the required AP exam in May.
- Students will receive a packet via the Google Classroom in June, which must be completed before the start of the course.

PREREQUISITE: AP Computer Science Principles or Intro to Computer Science.

Cyber Security (1.0 credit)

6340	Grades 11-12

The Cyber Security course will introduce students to computer and cyber security. Students will learn about how information is safeguarded, vulnerabilities in computer systems, what steps are needed to make sure that information and data is safe, and who has access to personal information. Topics include cyber terrorism, digital forensics, and protecting oneself against cybercrime. *Cyber Security will be offered every other year, starting in the 2024-2025 academic year.*

Advanced Programming (1.0 credit)

6300	Grades 11-12

Students will learn Python, and have the opportunity to earn the Certified Entry-Level Python Programmer and/or the Certified Associate in Python Programming certifications. Topics include: Data Types, Variables, Basic Input-Output Operations, Basic Operators, Boolean Values, Conditional Execution, Loops, Lists and List Processing, Logical and Bitwise Operations, Modules, Packages and PIP, Exceptions, Strings, String and List Methods, Object-Oriented Programming in Python (OOP).

PREREQUISITE: Advanced Video Game Design, AP Computer Science A, or teacher permission with demonstration of knowledge in text-based programming language and control structures.

BUSINESS

Accounting (1.0 credit)

8010	Grades 11-12

Accounting is considered to be the language of business. Students who intend to pursue a college degree in any business area will be required to take several accounting courses; therefore the course is designed for students planning to pursue a career in business, for students planning to operate their own business, or for students who want to learn the operations of a business. Students will learn to plan, maintain, analyze, and interpret financial records. They will prepare actual accounting statements and complete accounting simulations for businesses organized as proprietorships, partnerships, and corporations. The course will conclude with students preparing a realistic business simulation by maintaining records and preparing all of the financial statements for a sole-proprietorship.

Marketing (1.0 credit)

8020	Grades 11-12

Marketing consists of the strategies and tactics used to identify customer wants and needs that guide product development and selection, and to, create, and maintain satisfying relationships with customers that result in value for both the customer and marketer. This course explores marketing essentials in several industries, including: manufacturing, sports and entertainment, hospitality and tourism, and retail and fashion. Students will learn how businesses use marketing to increase their effectiveness and the revenues they generate. They will learn to improve personal marketing skills. Students will apply marketing skills they learn to interviewing with an employer, organizational leadership, and politics to position them for successful careers in the business world.

Business Administration (1.0 credit)

8030	Grades 10-12

Business Administration is a dynamic course designed to introduce the fundamental characteristics of business and is essential to being an informed and financially literate member of society. In the course, students will learn the features of financial management that are crucial to sound financial decision making and include topics on saving and investing, money management, including budgeting, taxation, real estate, credit, risk management and insurance. Students will study the structure and operation of a business from a sole-proprietorship to a corporation as well as prepare and interpret financial statements and the methods used to finance a business. Students will be introduced to aspects of personal financial literacy, resulting in the creation of a personal business plan.

Financial Literacy (1.0 credit)

8040	Grades 9-12

How money smart are you? Financial Literacy is designed for high school students to understand the importance of the financial world, including planning and managing money wisely. Areas of study will include sources of income, budgeting, banking, consumer credit, insurance, spending, taxes, investment strategies, transportation, college loans and other debt, saving for retirement, and living independently. Based on hands-on-skills and knowledge applied in the course, students will develop financial goals and create realistic and measurable objectives to be money smart! Through project-based learning activities and tasks, students will apply the mathematics necessary to make informed decisions related to personal finance.

Computing Essentials (1.0 credit)

6300	Grades 9-12

This course serves as an introduction to computing for students who would like to understand their roles as digital citizens. Topics include how to use your computer, responsible internet use, managing an online identity, and cloud computing.

Coding for Web Design (1.0 credit)

6320	Grades 9-12

This course is project-based, utilizing numerous Web-based technologies. Students will work individually and in groups to learn and apply HTML and CSS. Students will explore JavaScript, web design, and current topics in web development. They will also be introduced to JavaScript. As a culminating project, students will have the opportunity to develop a quality website following current trends. *Coding for Web Design will be offered every other year, starting in the 2023-2024 academic year.*

DELAWARE COUNTY TECHNICAL HIGH SCHOOLS

Delaware County Technical Schools 9400 4.0 Credits
Grades 10-12
Career and technical education programs are offered to students by the Delaware County Intermediate Unit. Instruction is provided in a variety of career fields in facilities that are outfitted with state-of-the-art equipment. Students acquire knowledge and skills with the potential to earn industry certifications, gain college credits, and/or obtain paid co-op experiences within their field of specialization. Students spend half of their day at the technical school and the other half at Strath Haven High School for the duration of the school year.

Students who are interested in attending one of the county technical schools are required to discuss this option with their school counselor who can provide information about arranging visits to the campuses. Admission to the technical school is based upon a review of the application submitted by the student to the DCIU. Strath Haven High School will facilitate completion of the application, but admission to the technical school is solely at the decision of the DCIU. Students are encouraged to visit the website at www.dciu.org/dcts.

CLICK ON THE LINKS BELOW TO LEARN MORE ABOUT EACH PROGRAM.

CONSTRUCTION TECHNOLOGY
- Building Trades
- Carpentry
- Electrical Construction Technology
- Heating, Ventilation and Air Conditioning (HVAC)/ and Plumbing
- Welding

ENGINEERING AND COMPUTER SCIENCE
- Advertising, Design and Commercial Art
- Computer IT Program and Software Development
- Computer Networking and Digital Forensics
- Engineering and Robotics

HOSPITALITY, TOURISM AND HUMAN SERVICES
- Cosmetology
- Culinary Arts
- Early Childhood Education
- Teacher Preparation Academy

HEALTH AND BIOSCIENCE
- Biomedical Technology and Laboratory Sciences
- Dental Occupations
- Emergency and Protective Services
- Health Sciences
- Exercise Therapy and Sports Science
- Emergency and Protective Services

LOGISTICS, DISTRIBUTION, AND TRANSPORTATION
- Automotive Technology
- Collision Repair Technology
- Logistics and Inventory Management

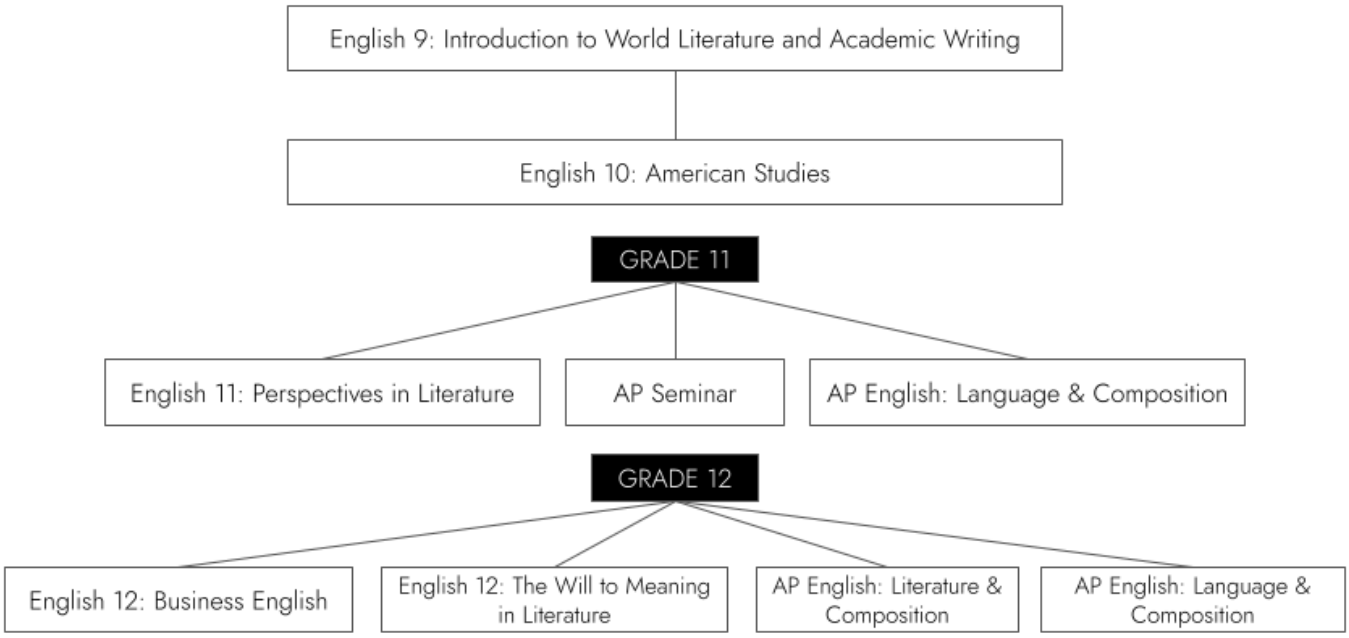
Delaware County Technical Schools 9180 2.0 Credits
Medical Careers This one-year program is designed for seniors who intend to pursue a degree in medicine, nursing or allied health professions. Students attend class in a local hospital, where they spend two days a week shadowing medical staff and observing patient care procedures. The curriculum includes anatomy and physiology, medical law and ethics, and medical terminology. Admission to the program is based upon review of the general DCTS application, a supplemental application and an interview with Medical Careers staff. Strath Haven High School will facilitate completion of the application, but admission to the Medical Careers program is solely at the decision of the DCIU.

ENGLISH

The Strath Haven English program addresses informational, persuasive, and literary forms of communication. It expands on the skills and content taught in grades 6-8 and introduces more sophisticated skills and content. The program recognizes the varying needs and aspirations of students and offers a range of courses appropriate to student ability and interest.

Two components of communication structure the program: required literature survey courses and elective skill building and enrichment courses. All 9th graders must earn two credits, and all 10th-12th graders must earn one credit of English each year by successfully fulfilling the requirements of the courses.

SEQUENCE OF REQUIRED COURSES



Elective Courses

Creative Writing	Grades 10-12	1.0 Credit
Journalism	Grades 9-12	1.0 Credit
Public Speaking	Grades 10-12	1.0 Credit
AP Research	Grade 12	1.0 Credit

Students may take elective courses in addition to, but not in lieu of, the required options. Placement in required English courses is based upon teacher recommendation and classroom performance.

English Department: REQUIRED COURSES

English 9: Introduction to World Literature and Academic Writing (2.0 credits)

Grade 9	1121: Honors	1142: College Prep

This 2.0 credit course focuses on two primary objectives: the development of reading and writing skills. Reading instruction includes pre-reading and comprehension strategies and vocabulary development. Students will read core texts and will also participate in a reading program predicated on student choice. Every 9th grade classroom has a library designed to appeal to a variety of learner interests and abilities. These readings serve as starting points for a wide range of analytical and reflective writings. The variety of reading and writing assignments helps prepare students for reading and writing tasks in all content areas. Students will also conference with teachers regularly as a way to cultivate their own personal reading preferences. This course provides extensive direct instruction in expository and persuasive writing, essay structure, syntax, and mechanics. Students are expected to achieve competency in all identified skill areas.

English 10: American Studies (1.0 credit)

Grade 10	1221: Honors	1242: College Prep

American Studies provides the structure for all tenth grade students to learn and experience the unique values of America's societal, technological, and cultural evolution. The course emphasizes reading and writing, as well as varied learning performance opportunities, such as simulations, projects, and group work. The development of the course is thematic. Prominent themes are Shaping the American Dream, Facing the American Challenges in a Changing World, and Restructuring for a Better Community. The course introduces students to selected works of 19th and 20th Century American literature. Teachers provide instruction in grammar, usage, and mechanics in the context of students' writing. Students will also participate in a reading program predicated on student choice. Every 10th grade classroom has a library designed to appeal to a variety of learner interests and abilities. These readings serve as starting points for a wide range of analytical and reflective writings. The variety of reading and writing assignments helps prepare students for reading and writing tasks in all content areas. Students will also conference with teachers regularly as a way to cultivate their own personal reading preferences. Assessment methods vary and include oral, written, multimedia, and group presentations.

English 11: Perspectives in Literature (1.0 credit)

Grade 11	1321: Honors	1342: College Prep

Focusing on issues surrounding identity and truth, this course uses literature to explore different perspectives. Students will consider how society shapes an individual – especially during times of change – and how individual circumstances can shape a person's outlook, actions, language, and sense of truth. Students will also participate in a reading program predicated on student choice. Every 11th grade classroom has a library designed to appeal to a variety of learner interests and abilities. These readings serve as starting points for a wide range of analytical and reflective writings. The variety of reading and writing assignments helps prepare students for reading and writing tasks in all content areas. Students will also conference with teachers regularly as a way to cultivate their own personal reading preferences.

AP English Language and Composition

Grades 11-12	1402	1.0 credit

AP English Language and Composition is an advanced placement course for students wishing to develop a greater appreciation for the richness and power of language. This course hones reading, writing, and analytic skills while preparing students for the required Advanced Placement Examination. We examine a variety of nonfiction texts to determine how authors convey meaning and what makes their words effective. Reading selections include speeches, essays, narratives, and satires. Students have opportunities to apply the rhetorical strategies we study to their own writing and to explore sociopolitical questions about the English language.

English 12: AP Literature and Composition (2.0 credits)

Grade 12	1401: Advanced Placement

AP English Literature and Composition is an advanced placement course designed to simulate or replace an entry-level collegiate humanities course. A comprehensive standardized test administered in May provides students with an opportunity to demonstrate skills pertaining to the explication and understanding of fiction and poetry. Students are exposed to literature from a variety of genres and time periods. Writing, including critical analysis, informal exploratory pieces, and creative assignments, is an integral part of this course.

English 12: The Will to Meaning in Literature (1.0 credit)

Grade 12	1421: Honors	1442: College Prep

The Will to Meaning in Literature is a survey course, the central focus of which is to evaluate a variety of texts through the lens of Viktor Frankl's theory of logotherapy. In *Man's Search for Meaning*, Frankl's psychological and philosophical reflection upon his experiences in Auschwitz, he promotes the idea of individual responsibility in the face of human suffering. This model is used to evaluate core texts and student selected texts from a variety of genres, both fiction and non-fiction. The primary goal of this course is to broaden and deepen students' relationship with literature and to foster the ongoing development of critical thinking and writing skills. Every 12th grade classroom has a library designed to appeal to a variety of learner interests and abilities. These readings serve as starting points for a wide range of analytical and reflective writings. Students will also conference with teachers regularly as a way to cultivate their own personal reading interests.

English 12: Business English (1.0 credit)

Grade 12	1540

Business English is a one-semester course with an emphasis on a certain skill or concept regarding communicating in the business world, understanding the nature of business communication in today's workplace and the nature of communication between senders and receivers. Students enrolled in the course will use and create resumes and business letters as well as digital presentations in the course. In this class, students will learn the basics of presenting themselves professionally in written and oral discourse. Additionally, the course will also address crucial oral and visual means of communication, and students will be asked to consider the ways people present themselves in the classroom and the workplace.

ENGLISH ELECTIVE COURSES*

Creative Writing

Grades 10-12	1500	1.0 credit

Creative Writing allows students to do the sort of writing that so often does not fit into a literature-based curriculum. Students write poetry, non-fiction essays, short stories and other types of creative pieces. The atmosphere in the room is non-judgmental, and risk-taking is encouraged. Reading of famous writers and critical analysis of their work are also parts of the course.

Journalism

Grades 9-12	1535	1.0 credit

The course is designed to develop the skills of a student journalist in every aspect of journalism, both print and broadcast. Starting with a brief history and look at journalistic ethics, the course will then move onto a more hands-on approach in which students will practice interviewing skills, writing leads and news stories, and doing in-depth research.. Students will also study the layout of a publication , photography, and the impact of technology on journalism. Students will also learn about budgeting, advertising, and public relations. Writing assignments will focus on the use of the Associated Press Stylebook.

Public Speaking

Grades 10-12	1550	1.0 credit

This course is designed to expand students' knowledge about the fundamentals of public speaking. In addition to making different kinds of speeches, students develop effective communication skills, including diction, audience dynamics and control, clarity, listening and debate; principles of self-evaluation; and techniques of group discussion.

AP Capstone: Seminar / English 11H

Grade 11	1601	2.0 credits

AP Capstone Seminar is a year-long interdisciplinary course focused on academic research skills. The course supports students as they analyze, construct, and communicate evidence-based arguments about global issues that appeal to their interests and curiosity. The course follows the curriculum set by the College Board, which requires students to demonstrate their critical thinking, collaboration, and communication skills through a team research project and an individual research project in addition to the AP exam in May. Students will study and analyze articles from news sources and academic journal articles, photo essays, art, documentaries, feature films, philosophy, and poetry in addition to some of the core works of the English 11 Perspectives in Literature curriculum.

AP Capstone Seminar satisfies the core requirement for English 11. Students who complete AP Capstone Seminar may go on to enroll in AP Capstone Research and be eligible for the AP Capstone Certificate and Diploma. AP Capstone Research is an elective course for seniors, not a core course.

PREREQUISITE: Teacher recommendation into AP Seminar / English 11 Honors

AP Capstone: Research*

Grade 12	1611	1.0 credit

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan and conduct a research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and

synthesizing information as they address a research question. Because AP Research does not meet the requirements to be a core course in any single discipline, it does not count as a core course to be taken in lieu of 12th grade English or any other core course.

Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4,000–5,000 words (accompanied by a performance or exhibition of the product where applicable) and a presentation with an oral defense.

AP Research is a fall, one-semester course with a direct course instructor; however, in order to receive credit for AP Research, students will be required to complete the College Board-required AP project during the spring semester, either independently with the support of the instructor or through an approved Independent Study.

Completion of AP Seminar and AP Research qualifies students for the AP Seminar and Research Certificate. Completion of AP Seminar and AP Research as well as four other AP courses qualifies students for the AP Capstone Diploma.

PREREQUISITE: Students must complete AP Capstone Seminar in order to enroll in AP Research.

FAMILY AND CONSUMER SCIENCES

The Family and Consumer Sciences Department includes the following programs:
Child Development, Clothing Design, Interior Architecture, and Foods.
All courses in this department will be credited toward the Fine and Applied Arts, Business and Computer Science requirement for graduation.

The Family and Consumer Sciences Department is committed to relevance to real life by preparing students for independent living and successful careers. Our courses are multidisciplinary in nature and promote STEM initiatives by emphasizing 21st century technical and analytical skills, as well as critical 'soft skills' such as: teamwork, time management, following directions, creative problem-solving, communication, leadership and organization skills, and fostering curiosity and imagination. The disciplines of science, technology, engineering and math are integrated throughout the curriculum. Teaching concepts in project-based learning experiences and interactive labs is fundamental to our approach.To support the emerging trend from corporations and organizations, WSSD has adopted Design Thinking into our courses as a process for project-based learning. Family and Consumer Science courses use the Design Thinking model across various projects. Doing so provides opportunities for students to learn the essential pillars of Design Thinking, including Empathy for the needs of those for whom you are designing, Ideation as a process to generate ideas, and Experimentation to test and prototype those ideas, along with the seven steps of Design Thinking (Ask, Imagine, Plan, Create, Test/Improve, and Share).

CHILD DEVELOPMENT

Exploring Childhood (1.0 credit)

7700	Grades 10-12

In this course, students will be immersed in a comprehensive study of children from birth to early childhood, with emphasis on physical, social, emotional and cognitive development. An integrated approach to learning, based on the research of child development theorists, reflective personal experiences, and real-world application of principles in working with preschool children three days a week, creates the basis for exploration. Course content covers a broad range of Pre-operational stage child development topics including personal identity, self-esteem, the importance of literacy and play, social skills, and the significance of incorporating STEM in lesson plans. Emphasis is placed on brain development, learning environments, health concerns and developing positive interactions with children. The Exploring Childhood student will also do a case study focusing on a preschool child's social, emotional, cognitive, and gross and fine motor development, based on their observation. All students will prepare and practice preschool lessons for art, math, science, nature, physical games, music, story time and literacy.

Advanced Childhood (1.0 credit)

8020	Grades 10-12

The focus of this course is to further explore human development throughout childhood and adolescence. Advanced Childhood students will continue to be actively involved with younger children three days each week. This involvement will allow them to experience first-hand, situations that require them to identify, brainstorm, test and evaluate, and share solutions through leading both one-on-one and small group activities. Classroom topics for discussion and analysis include societal issues, such as the effects of television and social media, nutrition, family dynamics and learning disabilities. Students will complete a case study on their assigned preschool child's developmental milestones. The high school students will continue their role as teachers, by writing developmentally appropriate lesson plans with an emphasis on STEM. In their final project, the students will learn about the significance of literacy in early childhood by creating their own children's book.

CLOTHING CONSTRUCTION

Clothing Construction and Design (1.0 credit)

7900	Grades 9-12

This is a hands-on sewing class teaching basic construction of apparel and accessories. A wide range of textiles and the science behind their creation will be discussed. After creating an individual stitch booklet for future reference, students will apply their technical skills to a variety of creative challenges. In preparation for their assignments, students will study the history of fashion and its iconic designers.

Advanced Clothing and Design (1.0 credit)

7960	Grades 10-12

You will be pushed out of your comfort zone into an area of construction and design, to work with more challenging textiles and techniques. Students will sketch designs, make patterns, and create a mini-collection expressing their point of view to present in our Fashion Show, the culminating event of the semester. This course will take clothing design to the next level, using technology such as iPads for design and research, and the sergers and embroidery machines to enhance designs.

INTERIOR ARCHITECTURE

Interior Architecture(1.0 credit)

7870	Grades 9-12

Learn Interior Design and Space Planning from the foundation up! In this naturally STEM-oriented program, students will bring their vision to life through the discovery of their own sense of style, and the application of the Principles and Elements of design. The course emphasis is on fostering individual creativity, developing visual communication skills and utilizing problem solving techniques. Through a series of exercises and assignments in their sketchbooks, the evolution of student into designer unfolds. Throughout the course, students practice the design process: identify, brainstorm, plan, revise and edit, and ultimately present a clear concept. Students learn to take and write room measurements, complete a client interview, read and draw architectural and furniture symbols, draw floor plans and elevations, communicate ideas effectively, and work extensively with color, fabric and spatial relationships. Students will complete the Bedroom Redesign Project during the second half of the course, giving them an opportunity to bring their knowledge and imagination full circle.

Advanced Interior Architecture (1.0 credit)

7880	Grades 9-12

Students will create two major portfolio projects. They will begin with the conceptual redesign of an existing space and develop a budget for the plan. Students will then choose their second project, either commercial or residential in nature, with specifications and research on architectural or historical styles. Options for presentation techniques will be explored and will include architectural model making, perspective drawings, reflected ceiling plans, and advanced color rendering. Discussion of topical issues, design trends, and materials along with weekly critiques will develop artistic confidence and personal growth.

FOODS

The Foods courses integrate both life and career skills, including kitchen chemistry and recipe math, organization and time management, communication and collaboration, global awareness, and economic, health and environmental literacy. The emphasis is on real-world application through both 1 and 2-day labs, in which teamwork, job rotation and group problem-solving are key components, 'Demo' labs performed by one kitchen team in a teaching role, a variety of in-class assignments and projects, readings, film clips and discussion of topical issues. Classes enjoy presentations from guest speakers of local community businesses, as well as, Culinary and Hospitality Colleges and Universities, and will experience a field trip to the Reading Terminal Market, The Restaurant School, or another special tour.

Essentials of Cooking and Baking (1.0 credit)

7800	Grades 9-12

Essentials of Cooking and Baking prepares students to work confidently in the kitchen as they complete basic recipes. This comprehensive culinary course will apply fundamental techniques, such as knife handling skills, selection and proper use of tools and equipment, basic ingredient functions, vocabulary, food preparation techniques and life skills. Students will participate in 1 and 2 day labs to develop these skills. Nutritional contributions of foods are examined and evaluated. At the completion of this course, students will be able to plan, prepare and execute recipes in both the baking and culinary world.

Culinary Arts (1.0 credit)

7820	Grades 9-12

Culinary Arts builds upon the Essentials of Cooking course and will allow students to continue in their culinary practices bringing their cooking experience to a more advanced level. Students will have the opportunity to learn advanced cooking methods and food preparations. Students will learn how flavor, texture and appearance are all factors when preparing culinary dishes. An emphasis will be placed on budget, meal planning, time management, ingredients and equipment. Students will discover the skills necessary to feel confident and resourceful in the kitchen. A variety of more complex recipes are prepared in addition to creating your own original recipes and competing against your classmates in classroom cooking competitions.

Global Foods (1.0 credit)

7830	Grades 9-12

Feeling adventurous? Join us on a trip around the world to explore international cuisine. Global Foods class will study the similarities and differences among cultures, as we examine the dietary habits, traditional foods, and unique festive occasions of various countries. Specialty units which form the basis of a creative class project, may highlight each students' heritage, or topical issues, such as sustainability and world hunger. This course is recommended to increase global awareness, and for students interested in world travel, or careers in international business, or culinary and hospitality.

Nutrition and Food Science (1.0 credit)

7850	Grades 9-12

The Nutrition and Food Science course is designed to provide high school students with the fundamental understanding of nutrition and its impact on their health and well-being. Through a combination of classroom instruction, practical activities, and real-world applications, students will learn to make informed and healthy dietary choices that will benefit them throughout their lives. ***This course offering is tentative for 2024-2025 pending Board approval in January 2024.***

HEALTH AND PHYSICAL EDUCATION

MISSION STATEMENT

Through the use of a comprehensive and holistic approach to health and wellness, Strath Haven High School students will learn how to incorporate nutrition, avoidance of drugs and alcohol, healthy decision making, and fitness and physical activity into their own profile of health and a continued healthy lifestyle for the future. We believe it is important to have students experience a variety of physical activities, sports, games, training regimens, and fitness measures so they have the opportunity to learn the major components of fitness that have great impacts on our physical health and our overall health. Health content will focus on factual information which should be used in the application of making decisions with regards to nutrition, stress and mental health, healthy relationships, sexuality, and lifelong physical activity, among others.

REQUIRED COURSES

Health and Physical Education 1 (1.0 credit)

9770	Grade 9

This course is required for all students to be eligible for graduation. Health and Physical Education sessions will alternate days for one full semester. Units of study in health include: the components of fitness, wellness and nutrition, communicable and non-communicable diseases, heart disease, smoking, alcohol, and drugs. Physical Education activities include: cardiovascular endurance activities, strength and flexibility exercises, and team building, with an emphasis on developing lifelong habits of good health, fitness, and wellness.

Health and Physical Education 2 (1.0 credit)

9780	Grade 10

This course is required for all students to be eligible for graduation. Health and Physical Education sessions will alternate days for one full semester. Units include a continued study of human sexuality, addictive behaviors, mental health and illness, and decision making. Activities are designed to provide students with the critical knowledge, skills, and incentives needed to grow into productive, healthy adults. Lifetime fitness instruction includes swimming, individual sports, aerobic, and weight training programs.

ELECTIVE COURSES

Lifeguard Training, Fitness, and Sport (1.0 credit)

9855	Grades 9-12

Students will be offered the opportunity to earn American Red Cross certifications in Lifeguard Training, First Aid and Safety, CPR, and AED training. The topics of disaster preparedness, safety and emergency response will be studied in a variety of situations. Students will develop a greater appreciation for the seriousness of this training by learning about biomedical realities for related medical emergencies. Additionally, students will achieve a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, principles, and strategies. This course elective provides an opportunity for students to perform in a competitive individual or team oriented setting, while demonstrating a positive attitude toward physical activity and sports, team tactics and strategies, good sportsmanship and safety for others and self. Passing a water safety skills test is a prerequisite for American Red Cross testing and certification.

Principles of Team Sports and Extreme Games (1.0 credit)

9810	Grades 10-12

This is a full semester course that is geared toward the individual who enjoys physical activity, sport, and competition. Sport theory, high levels of gameplay, intense action, and the effects and application of training on sport performance will be examined and assessed through the use of team and individual sports and games, and individual sport skill performance. Because the class is a full semester, it allows the participants to become fully immersed in each activity, training practice, or

game for a more complete experience. The full semester also allows for more class feedback and direction when it comes to choosing activities, games, or focus of training.

Strength and Conditioning (1.0 credit)

9895	Grades 10-12

This course will provide an opportunity to participate in a semester-long strength and conditioning program designed to improve muscular strength, muscular endurance, cardiovascular fitness, flexibility, and explosive power. Weight training exercises will be supplemented by plyometric, stretching, and running activities. Students will keep a log of all class activities to measure individual improvement, and will have an opportunity to design a tailor suited plan for individual fitness needs and goals.

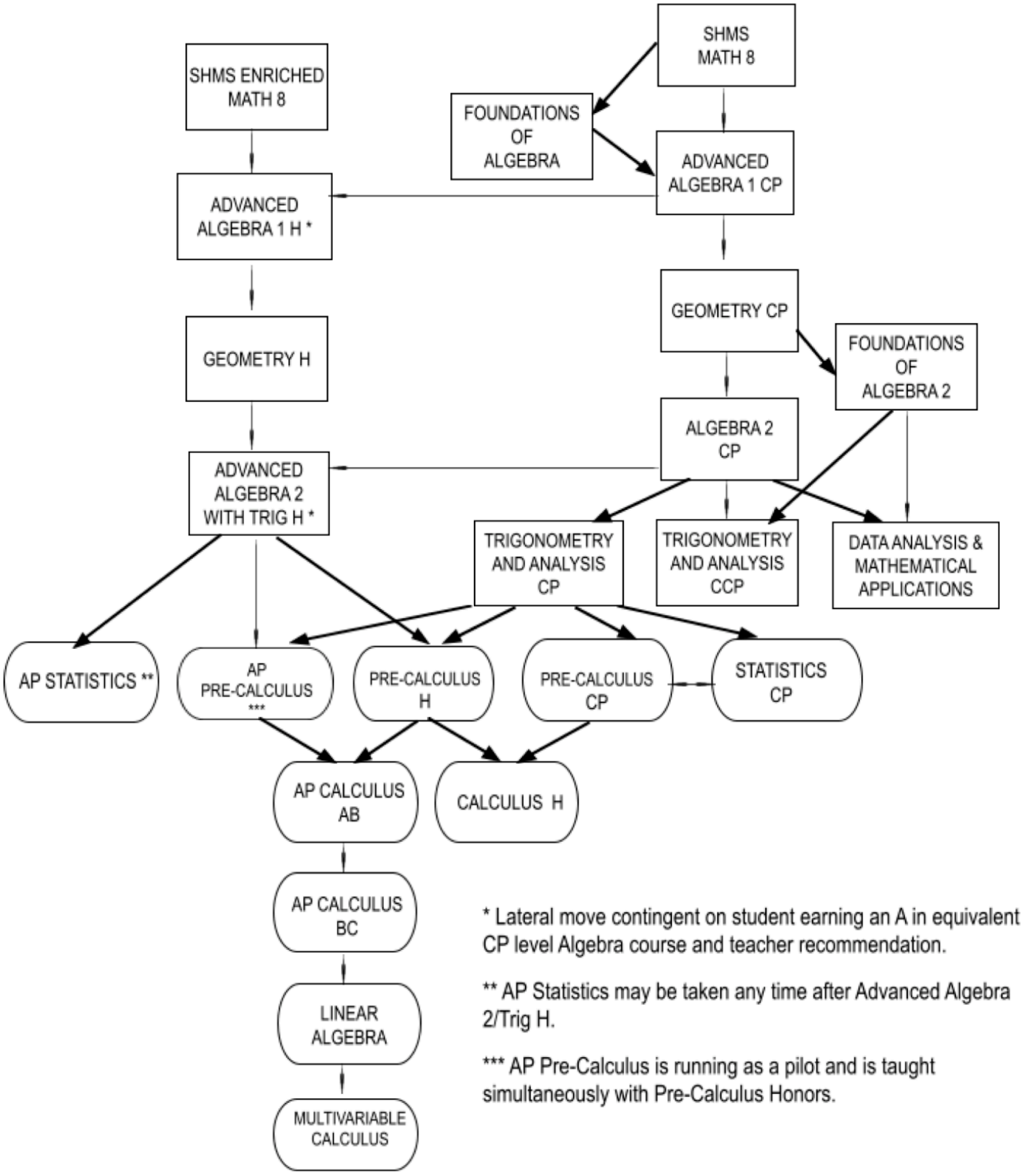
MATHEMATICS

Strath Haven High School mathematics courses are designed to:

- Encourage students to be active participants in the learning process
- Inspire intellectual curiosity and aesthetic appreciation of mathematics
- Enhance critical thinking and problem solving skills
- Promote cooperative learning and develop effective communication skills
- Utilize technology to explore mathematical relationships

The flowchart on the following page indicates the sequence of the mathematics courses offered at Strath Haven High School. The course descriptions that follow give an overview of the curriculum covered in each course. Please pay close attention to the prerequisite listed for each course. Any student wishing to change the level of the course they are taking should speak with their current mathematics teacher for advice.

COURSE SEQUENCE: MATHEMATICS DEPARTMENT



* Lateral move contingent on student earning an A in equivalent CP level Algebra course and teacher recommendation.

** AP Statistics may be taken any time after Advanced Algebra 2/Trig H.

*** AP Pre-Calculus is running as a pilot and is taught simultaneously with Pre-Calculus Honors.

Foundations of Algebra (1.0 credit)

3043

This course is designed for students who are performing below grade level in mathematics. The purpose of the course is to build a foundation of skills that will allow students to have success in the Advanced Algebra I CP course. All relationships are examined from a numerical, graphical, and verbal point of view. The analysis of real world applications is a prime focus in order to develop a strong conceptual understanding of the linear function as compared to a traditional Algebra course that places a greater emphasis on the symbolic representation.

RECOMMENDATION:
Recommendation of the math department based on Below Basic scores on the PSSA in grades 6-8.

Advanced Algebra 1 (1.0 credit)

3021: Honors 3042: College Prep

This course begins by reviewing the algebra of linear functions as it continues to develop the habits of mind that are useful in the further study of mathematics. The course then goes on to examine basic non-linear functions, such as exponential, radical, absolute value, and polynomial functions. Special attention will be given to the quadratic function. All functions are examined from a numerical, graphical, algebraic, and verbal point of view. Attention will be paid to real world applications of all functions. Students should plan to take the Algebra Keystone exam when enrolled in Advanced Algebra I.

PREREQUISITE:
HONORS: A grade of "B-" or better in Enriched Math 8 or department approval. A grade of "A-" or better in Advanced Algebra 1 CP with teacher recommendation.
COLLEGE PREP: Successful completion of SHMS's Math 8 or another Algebra course that addresses linear functions.

Geometry (1.0 credit)

3121: Honors 3142: College Prep

This course begins with an informal introduction to geometry, experimenting with drawings, constructions, and geometry software. Using a theme of investigation before formalization, the course examines congruence, similarity, parallel and perpendicular lines, the properties of polygons and circles, perimeter and circumference, area, surface area, and volume. Students will also explore right triangle trigonometry, as well as the formulas for midpoints, distance between points, and the equation of a circle on the coordinate plane.

PREREQUISITE:
HONORS: A grade of "B-" or better in Honors Advanced Algebra 1 or department approval
COLLEGE PREP: Successful completion of Advanced Algebra 1.

Advanced Algebra 2/Trigonometry (1.0 credit)

3221: Honors

This course continues the study of functions addressed in Advanced Algebra 1 Honors and is intended for students who can progress at a rapid pace through the study of mathematics. The course experiments with functions, differentiating between explicitly and recursively defined functions. The definition of a function is formalized and students use polynomial functions to explore the topics of domain, range, operations of functions and inverse functions. Students are introduced to complex numbers. The study of functions is then extended to include exponential, logarithmic, and trigonometric functions. Students will investigate various transformations of those functions while reviewing functions such as rational, absolute value, and square root. Other topics include arithmetic and geometric series, combinatorics, Pascal's Triangle, and the Binomial Theorem.

PREREQUISITE:
HONORS: A grade of "B-" or better in Honors Advanced Algebra 1 and Honors Geometry, or department approval. A grade of "A" or better in Algebra 2 CP with teacher recommendation.

Algebra 2 (1.0 credit)

3242: College Prep

This course continues the study of functions addressed in Advanced Algebra 1. It begins by experimenting with functions used to model real world data, differentiating between explicitly and recursively defined functions. The definition of a function is formalized and students use polynomial functions to explore the topics of domain, range, arithmetic of functions, composition of functions, and inverse functions. Students are introduced to complex numbers and the arithmetic of complex numbers. The study of functions is then extended to include exponential and logarithmic functions, with students investigating various transformations of those functions.

PREREQUISITE: Successful completion of Geometry.

Foundations of Algebra 2 (1.0 credit)

3263

This semester course is designed for students who are performing below grade level in mathematics, but would like to pursue Algebra 2. Students will explore traditional Algebra 2 material including quadratic, polynomial, rational, exponential, and logarithmic functions while also reinforcing Algebra 1 skills and concepts throughout the course.

RECOMMENDATION: Recommendation of the math department based on successful completion of Geometry, as

well as a Basic or Below Basic score on the Algebra 1 Keystone Exam.

Trigonometry and Analysis (1.0 credit)

3342: College Prep 3363: Career/College Prep

This course continues the study of functions addressed in Algebra 2. Students revisit the topic of systems of equations and are introduced to matrices, operations with matrices, and solving matrix equations. The study of functions is also extended to the rational family where students simplify expressions, solve equations, and graph functions. Students formalize their understanding of trigonometry in this course, focusing on graphing trigonometric functions, solving trigonometric equations, proving trigonometric identities, and using the Law of Sines and Cosines. Other content includes combinatorics and topics from probability and statistics. The completion of this course, as well as Pre-Calculus, is required for the study of Honors Calculus.

PREREQUISITE:
CP: Completion of Algebra 2 or department approval.
CCP: Teacher recommendation and department approval.

Data Analysis and Mathematical Applications (1.0 credit)

3663:College Prep

The Applications of Mathematics course incorporates four strands of mathematics: financial literacy, statistics, coding and mathematical modeling. The financial literacy piece introduces students to topics that are essential to being an informed and financially literate member of society. Topics include: financing, investing, banking practices, and budgeting. In the statistics portion of the course students will develop statistical thinking skills, interpret graphs using quantitative and categorical variables, and understand parameters that describe the variability of a distribution. The coding component of the course introduces students to the basics of coding language through web based applications. The culmination of the course will have students generate mathematical models to analyze real world problem based scenarios using the tools of statistics and coding introduced earlier.

PREREQUISITE: Successful completion of Foundations of Algebra 2, Algebra 2 CP or department approval.

Pre-Calculus (1.0 credit)

3622: College Prep

This course further develops studies in continuous functions which are important vehicles for modeling in many areas of the natural sciences, engineering, and economics. It is a review and extension of linear, quadratic, exponential, and logarithmic functions with stronger attention given to trigonometric and circular functions. Graphing technology is used to promote a student's ability to visualize functions, to explore relations between equations and their graphs, and to generate and analyze data. The completion of this course, as well as Trigonometry and Analysis, is required for the study of Honors Calculus.

RECOMMENDATION: A grade of "C" or better in Advanced Algebra 2/Trigonometry H; A grade of "B-" or better in Trigonometry and Analysis CP or department approval.

Honors/AP Pre-Calculus (1.0 credit)

3621: Honors Pre-Calculus
3721: AP Pre-Calculus (pilot)

Both courses further develop studies in continuous functions which are important vehicles for modeling in many areas of the natural sciences, engineering, and economics. Topics include the study of domain, range, maxima, minima, intervals of increase/decrease, and end behavior of polynomial, rational, radical, trigonometric, absolute value, logarithmic and exponential functions. Students also learn that functions and their compositions, inverses, and transformations are understood through graphical, numerical, analytical, and verbal representations, which reveal different attributes of the functions.

Students who opt for AP Pre-Calculus:
Students who enroll in this course are required to take the Advanced Placement Pre Calculus Examination. The completion of this course or Honors Pre-Calculus is required for the study of Advanced Placement Calculus.

Students who opt for Pre-Calculus Honors:

This course will include all topics found in the AP Pre Calculus course, but students enrolled will not be required to take the AP Pre Calculus exam. The completion of this course or AP Pre-Calculus is required for the study of Advanced Placement Calculus.

RECOMMENDATION: A grade of B- or better in Advanced Algebra 2/Trigonometry Honors or departmental approval. Students should have earned a grade of A- in Trigonometry and Analysis CP and departmental approval.

AP Statistics (1.0 credit)

3701: Advanced Placement

This course is equivalent to a one-semester introductory non-calculus-based college course in statistics. Students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. As prescribed by the AP curriculum, the students study four broad conceptual themes: exploring data through the use of graphical and numerical techniques, developing plans for collecting and analyzing data, using probability to anticipate results, and confirming models through statistical

inferences. Students who successfully complete this course and the AP examination may receive credit and/or Advanced Placement for a one-semester introductory college statistics course. Students who enroll in this course are required to take the Advanced Placement Examination.

PREREQUISITE: A grade of "B-" or better in Advanced Algebra 2/Trigonometry H, Calculus Honors, or department approval.

Statistics (1.0 credit)

3712: College Prep

This course is a practical hands-on approach to the study of statistics and probability. The topics include the use of graphs such as histograms, stem plots, box plots, and scatter plots to display data, using numbers such as median, mean, and standard deviation to describe data, and evaluating data distribution. Students examine relationships using correlations and least square regressions. They learn to estimate with confidence as well as to explore tests of significance, and to evaluate the validity of statistics contained within published reports.

PREREQUISITE: Successful completion of Trigonometry and Analysis CP or department approval.

Calculus Honors (1.0 credit)

3800: Honors

This course is designed for **seniors** who intend to take calculus in college. The goal of this course is to provide students with a clear understanding of Pre-Calculus and Calculus concepts. Students must have a working knowledge of polynomial, trigonometric, exponential, and logarithmic functions. This course will expand upon the functional foundations provided during the Pre-Calculus course. Topics of study include limits, continuity, differentiation, and integration, with a focus on conceptual understanding.

PREREQUISITE: A grade of "B-" or better in Pre-Calculus CP or department approval..

AP Calculus AB (1.0 credit)

3801: Advanced Placement

This college-level course in the calculus of elementary functions prepares students for the Advanced Placement Examination. Students must have a thorough knowledge of honors level college preparatory mathematics, including algebra, axiomatic geometry, trigonometry, and analytic geometry. Topics of study include limits, continuity, differentiation and integration of algebraic and transcendental functions, and applications to physical situations. Students who enroll in this course are required to take the Advanced Placement AB Examination, unless also enrolling in BC Calculus in the same school year.

PREREQUISITE: A grade of "B-" or better in Pre-Calculus H or department approval.

AP Calculus BC (1.0 credit)

3901: Advanced Placement

This course is a continuation of Calculus AB and is intended for students who have a thorough knowledge of Calculus AB. Topics of study include differential equations and mathematical modeling, applications of the definite integral, improper integrals, and infinite series, as well as parametric, vector, and polar functions. Students who enroll in this course are required to take the Advanced Placement BC Examination.

PREREQUISITE: A grade of "B-" or better in Calculus AB or department approval.

College Linear Algebra (1.0 credit)

3911: Honors

Linear Algebra is a powerful area of mathematics useful for tackling many problems in the physical, biological, and social sciences where linearity is a key feature. The course covers simultaneous linear equations, inner products, matrix algebra, determinants, linear transformations, vector spaces, and eigenvalues. Students should construct a portfolio of their work during this course for the purpose of helping colleges determine appropriate college mathematics placement.

PREREQUISITE: A grade of "B-" or better in Advanced Placement BC Calculus or department approval.

Multivariable Calculus (1.0 credit)

3921: Honors

This course is equivalent to a one-semester college multivariable calculus course. Students must have a thorough knowledge of calculus in two variables and introductory linear algebra. Multivariable calculus continues the study of differentiation and integration in calculus by extending the concepts explored in two-dimensional calculus to three or more variables. Topics include partial differentiation, extreme value problems, Lagrange multipliers, double and triple integrals, line and surface integrals, Green's Stokes's and Gauss's theorems.

PREREQUISITE: A grade of "B-" or better in College Linear Algebra or department approval.

SCIENCE

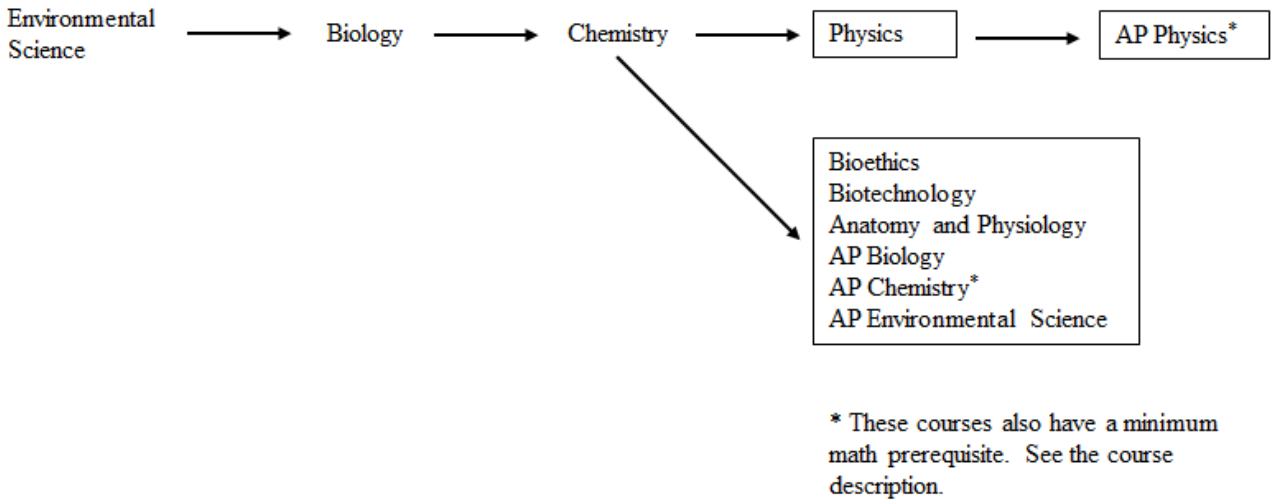
The Strath Haven Science Program is designed to develop and promote science knowledge, technology, and scientific literacy. The department will maintain rigorous standards for our students in all courses in our curriculum. Students will experience safe, hands-on educational opportunities allowing students to participate in the scientific process and to develop critical thinking skills which can be applied to everyday situations. The numerous offerings in the curriculum allow students to acquire practical knowledge, and to become informed and responsible members of an ever-changing global society in an increasingly complex, technological world.

To best achieve this end, the department suggests that all 9th grade students take Environmental Science.. In addition, the Science Department suggests that students follow the sequence: Biology, Chemistry, and an additional science to complete the 4 credit graduation requirement. Students will have opportunities to select one or more of the following elective courses throughout their years at SHHS:

Physics, Biotechnology, Anatomy and Physiology, AP Biology, AP Chemistry, AP Environmental Science, AP Physics: Mechanics, AP Physics: Electricity and Magnetism.

The Advanced Placement Science courses allow students to study college level science while still in high school. They are designed for students who have successfully completed the first course in the subject. Each follows the curriculum set by the College Board.

SUGGESTED SCIENCE PROGRAM



Environmental Science (1.0 credit)

4021: Honors	4042: College Prep

Students will open their eyes and minds and explore ecological, biological, chemical and physical science through this integrated course. In this hands-on, experimental learning environment, students will become more aware of the importance and the limits of their surroundings. The students in indoor as well as outdoor laboratories will perform a variety of activities, laboratory investigations and problem-solving activities. The focus and direction of this course will keep students excited about learning science and full of learning energy. Skills such as writing laboratory reports, formulating hypotheses and developing experiments and performing student directed presentations would be emphasized with the goal of increasing student responsibilities and productivity. Topics of study include environmental decision making, organization of life, chemistry in our environment, energy in ecosystems, population, community, and ecosystem ecology.

Biology (1.0 credit)

4101: Honors	4122: College Prep

Biology is a laboratory-based course which allows students to develop a greater understanding of the diversity of species, both chemically and structurally. This course begins with an intensive study of biochemistry emphasizing enzymatic activity, photosynthesis, cellular respiration, nucleic acids and protein synthesis. Cell structure and function is explored along with genetics, as the molecular basis of heredity, followed by evolution. Laboratory exercises parallel lecture topics and focus on the scientific method and measurement. Educational experiences vary from cooperative learning activities to detailed laboratory experiences that emphasize critical thinking skills.

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PREREQUISITE: Successful completion of Environmental Science.

Analytical Chemistry (1.0 credit)

4183: Honors	Grades 10-12

Analytical chemistry is designed to provide students with a knowledge and understanding of chemical principles and concepts that are developed from inquiry-based experimental observations and data manipulation. Students experience the excitement of making discoveries and decisions, thinking creatively, and solving problems in chemistry. This chemistry course introduces concepts that include: atomic structure, chemical bonding and intermolecular forces, chemical reactions and stoichiometry, the chemistry of gases and solutions, acid-base chemistry, thermochemistry, and nuclear chemistry. The focus is on developing a facility in analytical and critical thinking which involves logical and quantitative relationships which were introduced in algebra and geometry. Students are provided with many opportunities through laboratory experiences to generate data that provide topics for analysis and discussion.

PREREQUISITE: Successful completion of Biology. Completion of Geometry H or a grade of "B+" or better in Geometry CP AND demonstration of strong math skills with teacher recommendation.

Analytical Chemistry (1.0 credit)

4203: College Prep	Grades 10-12

Analytical chemistry is designed to provide students with the knowledge and understanding of chemical principles and concepts emphasizing the descriptive study of chemistry combined with mathematical analysis. The course is taught through demonstrations, laboratory experiments, classroom discussions, and cooperative learning activities.This course is designed to provide students with a solid understanding of basic chemical principles and skills they need for college. Topics covered include: Matter and energy, atomic structure, periodic trends, chemical bonding, stoichiometry, and solutions.

PREREQUISITE: Successful completion of Biology, Algebra 1 and Geometry.

Chemistry (1.0 credit)

4223: College Prep	Grades 10-12

Conceptual chemistry is designed to provide students with the knowledge and understanding of chemical principles that focus on biochemistry and the relationship of chemistry to life. The concepts are taught through the use of descriptive studies using demonstrations, laboratory activities, classroom discussions, and cooperative learning activities. This course is designed to provide students with a solid understanding of basic chemical principles and skills they need for college.

Topics covered include: Matter and energy, atomic structure, periodic trends, chemical bonding, solutions, organic chemistry, and biochemistry.

PREREQUISITE: Successful completion of Biology.

Physics (1.0 credit)

4281: Honors Grades 11-12

This course is designed to achieve the following objectives:

- To engage students in understanding the physical world by constructing and using scientific models to describe, to explain, to predict and to control physical phenomena.
- To provide students with basic conceptual tools for modeling physical objects and processes, especially mathematical, graphical and diagrammatic representations.
- To familiarize students with a small set of basic models as the content core of physics.
- To develop insight into the structure of scientific knowledge by examining how models fit into theories.
- To show how scientific knowledge is validated by engaging students in evaluating scientific models through comparison with empirical data.
- To develop skills in all aspects of modeling as the procedural core of scientific knowledge.

In this course, students will study the fields of kinematics, dynamics, energy, and momentum, with a strong emphasis on algebraic and trigonometric applications of the topics covered.

PREREQUISITE: A grade of "C" or better in Advanced Algebra 2/Trigonometry H or a grade of "B" or better in Algebra 2 CP.

Physics (1.0 credit)

4302: College Prep Grades 11-12

This course is designed to achieve the following objectives:

- To engage students in understanding the physical world by constructing and using scientific models to describe, to explain, to predict and to control physical phenomena.
- To provide students with basic conceptual tools for modeling physical objects and processes, especially mathematical, graphical and diagrammatic representations.
- To familiarize students with a small set of basic models as the content core of physics.
- To develop insight into the structure of scientific knowledge by examining how models fit into theories.
- To show how scientific knowledge is validated by engaging students in evaluating scientific models through comparison with empirical data.
- To develop skills in all aspects of modeling as the procedural core of scientific knowledge.

While increasing our scientific thinking skills, we will cover motion, specifically kinematics and dynamics. Other topics we will touch on this semester are the history of science, astronomy, electricity and magnetism, and technological advances in science and popular culture.

Anatomy and Physiology (1.0 credit)

4351: Honors Grades 11-12

An inquiry-based course for students driven by the intrinsic desire to learn more about the human body, this course is designed for highly motivated juniors and seniors. Students enrolled in this course will investigate anatomy and physiology, cytology, histology, genetics, nutrition, and homeostasis. Students opting for this rigorous elective will have an interest in allied health, medicine and science careers. Traditional laboratory dissection experiences are a vital part of the curriculum, and participation is required. Laboratory explorations will delve into the fetal pig, pregnant pig uterus, sheep heart, sheep brain, and sheep circulatory and respiratory systems via a pluck. Histology experiences include a microscopic survey of epithelial, connective, muscular and nervous tissues.

PREREQUISITE: 1.0 credit each in Biology and Chemistry with a "B+" or better in Honors Chemistry or an "A-" or better in CP Chemistry.

Biotechnology (1.0 credit)

4481: Honors Grades 11-12

This lab course is designed for Honors students with at least the equivalent of two years of prior science study including biology and chemistry. Students enrolled in this course should have an intrinsic interest in advanced lab techniques and have an interest in continuing education in an intense lab-oriented discipline. Students will be expected to work in an independent, as well as group-oriented approach to analytical problem solving as they apply today's very dynamic biotechnological work, with an emphasis on writing and research techniques. This course centers on microbiology, pathology, immunology, forensics and DNA technologies. Forensic investigations will include criminalistics; elements of forensic science, including fingerprinting, blood typing and blood splatter analysis, bone investigations, and deductive reasoning. Although the topics are biological, their applications and impacts are examined as found in today's cutting edge society.

PREREQUISITE: A "C" or better in Chemistry H or a "B" or better in CP.

Biotechnology (1.0 credit)

4482: College Prep	Grades 11-12

This lab-based course is designed for students with at least the equivalent of two years of prior science study including biology and chemistry. This course centers on the contemporary technologies and related issues in the biological sciences including microbiology, pathology, immunology and DNA technologies. Forensic investigations will include criminalistics, elements of forensic science, including fingerprinting, blood typing and blood splatter analysis, bone investigations, and deductive reasoning. Although the topics are biological, their applications and impacts are examined in today's cutting edge society. This course looks at the way the quality of life can be improved through modern technological science.

Bioethics (1.0 credit)

4473: College Prep	Grades 11-12

Bioethics: The study of ethical and moral issues in the fields of medicine and biology. This course is designed for students with at least two years of prior science study, which include biology and chemistry. The focus is on current biological topics in society that are considered controversial by nature, and will allow students to make responsible, informed decisions and choices through research, debates, as well as a variety of activities.

Advanced Placement Biology (2.0 credits)

4161	Grades 11-12

The AP Biology course is designed by the College Board to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. It is designed for students who have successfully completed Accelerated Biology or Biology, and Chemistry. Biology, by Neil Campbell and Jane Reece, is the textbook for this course. The topics studied include cellular and molecular development of plants and animals. The focus is on structure, function, and evolutionary development of plants with emphasis on angiosperms; and structure, function, and development of animals with emphasis on vertebrates. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. After completing this year-long course, students are required to take the Advanced Placement Biology exam offered through the College Board.

PREREQUISITE: 1.0 Credit each in Biology and Chemistry. (These credits must be completed in lab-based courses.)

Advanced Placement Chemistry (2.0 credits)

4261	Grades 11-12

Advanced Placement Chemistry follows the curriculum set by the College Board. This course provides an in-depth understanding of fundamental concepts of chemistry and an understanding of chemical problems. Topics covered in this course are from the following areas: atomic and molecular structure, chemical reactions, kinetics, thermodynamics, and electrochemistry. This course emphasizes chemical calculations and mathematical formulation of principles. This course also includes laboratory work that is designed to be the equivalent of a first-year college course in laboratory chemistry. After completing this course, students are encouraged to take the Advanced Placement Chemistry exam offered through the College Board. Students must have completed a first year Chemistry course, and it is highly recommended that the student has a Physics course completed prior to enrollment in this course. After completing this year-long course, students are required to take the Advanced Placement Chemistry exam offered through the College Board.

PREREQUISITE: A grade of "B" or better in Honors Chemistry or "A-" in CP Chemistry (These credits must be completed in a lab-based course.) AND a grade of "B" or better in Advanced Algebra 2/Trigonometry H.

Advanced Placement Physics (1.0 credit)
Mechanics of Motion

4341	Grades 11-12

The typical first semester of university physics for science or engineering majors is devoted to Mechanics. Calculus is introduced and used in solving certain problems. The use of calculus in presentation of theory and in problem-solving is increased as the course progresses. The textbook for the course is Fundamentals of Physics, by Halliday, Resnick, and Walker. After completing this course, students are required to take the Advanced Placement Physics Level C: Mechanics exam offered through the College Board.

PREREQUISITE: 1.0 credit in Physics Honors AND concurrent enrollment in Advanced Placement Calculus or completion of Honors Calculus.

Advanced Placement Physics (1.0 credit)
Electromagnetic Theory

4331	Grades 11-12

Advanced Placement Physics: Electromagnetic Theory is designed to provide college level study of physics while still in high school. The typical second semester of university physics for science or engineering majors is the study of electricity, electrical fields and their properties, and electromagnetism. The use of calculus in presentation of theory and in problem-solving is more frequent than in Mechanics. The textbook for this course is Fundamentals of Physics, by Halliday, Resnick, and Walker. After completing this course, students are required to take the Advanced Placement Physics Level C: Electricity and Magnetism exam offered through the College Board.

PREREQUISITE: 1.0 credits in Advanced Placement Physics: Mechanics and one semester of Advanced Placement Calculus.

Advanced Placement Environmental Science (1.0 credit)

4401	Grades 11-12

AP Environmental Science is a semester-long, college-level introductory environmental science course that is designed for students who have successfully completed three years of science. There is a significant laboratory and field investigation component. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. After completing this course, students are required to take the Advanced Placement Environmental Science exam offered through the College Board.

PREREQUISITE: 1.0 credit each in Environmental Science, Biology, and Chemistry. (These credits must be completed in lab-based courses.)

SOCIAL STUDIES

The Social Studies curriculum prepares students to be informed, responsible citizens who critically engage in historical inquiry, who understand seminal ideas, concepts, and texts, and who recognize the broader context of historical and current events. The Social Studies Department work to accomplish the following goals:

- to develop the skills of responsible citizenship--including voting, decision-making, and community participation.
- to develop the ability to identify, compare, and contrast the defining features and inherent values of the political, social, and economic systems of the United States today and those of other periods and other peoples.
- to develop an understanding of and respect for racial, cultural, and religious groups in this society and others.
- to study the interaction of the natural world and developing civilizations.
- to develop the ability to appreciate and adapt to the ideas and feelings of others.
- to develop the ability to think critically and to express oneself logically, creatively, and persuasively.
- to introduce students to the various fields of the humanities and social sciences through electives offered as found below.

Required Social Studies Courses:

U.S. History II – 20th Century	Grade 9	1.0 Credit
Modern World History I	Grade 10	1.0 Credit
Modern World History II	Grade 11	1.0 Credit
Civics, U.S. Government and Political Philosophy	Grade 12	1.0 Credit
OR		
College Social Science Seminar	Grade 12	1.0 Credit

Electives:

AP US History	Grades 10-12	1.0 Credit
AP Economics	Grades 10-12	1.0 Credit
AP Psychology	Grades 10-12	1.0 Credit
AP World History	Grades 11-12	1.0 Credit
Anthropology: A Study of People and Their Cultures	Grades 10-12	1.0 Credit
Introduction to Psychology	Grades 10-12	1.0 Credit
Introduction to Philosophy	Grades 10-12	1.0 Credit
World Religions	Grades 11-12	1.0 Credit
African-American Studies	Grades 10-12	1.0 Credit
Social Issues, Social Justice	Grades 10-12	1.0 Credit

SOCIAL STUDIES: REQUIRED COURSES

US History II: 20th Century (1.0 credit)

Grade 9	2121: Honors	2142: College Prep

The United States History course emphasizes the unique values of America's societal, technological and cultural evolution. The program emphasizes reading and writing as well as varied learning opportunities including simulations, projects and collaborative work. The development of the course is chronological and thematic.

The course covers events from Post-Civil War industrialism to the present. The units of study include the political structure of the United States, American Industrialization, the Progressive Era, WWI, the 1920s, the Great Depression, WWII, The Cold War and Contemporary America.

All classes use basic readings from the U.S. History textbook along with extensive supplemental readings of primary and secondary sources. Students are expected to write frequently in a variety of styles. Many writing assignments require independent thought and research.

Modern World History I (1.0 credit)

Grade 10	2221: Honors	2242: College Prep

The Modern World History I course focuses on modern world history from the turn of the 16th century through the conclusion of World War I. This course emphasizes reading and writing as well as varied learning opportunities including simulations, projects and collaborative work. The development of the course is chronological and thematic.

The course covers events from approximately 1500 through the Treaty of Versailles in 1919. The major themes developed in the course include: the development of regional and global empires and trade networks; social and political developments of colonial and imperial systems; industrial and political revolutions; the growth of nationalism.

This course is reading and writing intensive and students will be expected to write frequently in a variety of styles. Many writing assignments of these require independent thought and research.

Modern World History II (1.0 credit)

Grade 11	2351: Honors	2352: College Prep

Modern World History II continues where Modern World I concludes. This course begins with global impacts of World War I, the rise of Communism and Fascism culminating in World War II. From there the course examines decolonization, global impacts of the Cold War and concludes with a contemporary emerging nation perspective and global interdependence. This course demands a high level of critical thinking, research, and writing.

In Honors classes, students complete extensive outside readings, including novels and other literature. Several three- to seven-page research papers, position papers and reports are required. This is a research-based course that requires considerable independent work and initiative. The facility to formulate, communicate, and defend personal opinions is stressed.

In College Preparatory classes, students read from various selections of literature and teacher prepared handouts. Several research papers and other "take-home" assignments requiring independent research are required. A research based persuasive paper is also required.

12th GRADE REQUIRED PROGRAM OPTIONS

College Social Science Seminar (1.0 credit)

Grade 12	2401	1.0 credit

College Social Science Seminar compares contemporary political and economic systems as they impact the world's social environment. Students study the role of the individual in a rapidly changing and interconnected global environment. The course will take a four-pronged approach to thematic material. Students will (1) review the foundations of political thought, (2) examine the successes and failures of the American democratic experiment, (3) compare and contrast contemporary political-economic systems, and (4) analyze and evaluate competing models of the post-Cold War international system.

The course demands extensive reading, including abstracts from foundational political-economy texts, scholarship from within the international relations field, and current essays on the evolving concerns of political-economic issue and theory. Students engage texts critically and develop their thoughts through the writing process--including an eight-page minimum research paper.

US Government and Political Philosophy (1.0 credit)

Grade 12	2421: Honors	2442: College Prep

This course examines the American political and economic systems as they impact the world's social

environment. Students will understand the role of the individual in a rapidly changing and closely related global environment. The course will take a three-pronged approach to thematic material. The course will (1) review the foundations of political thought; (2) examine the successes and failures of the American democratic experiment; (3) compare and contrast contemporary political systems.

The course requires students to construct knowledge as they analyze, compare, contrast, and evaluate political systems. operate within a wide range of cognitive abilities. . Students will be asked to think critically and to develop their thoughts through the writing process.

As seniors, students are ready to take their position as citizens—with all of the rights and responsibilities inherent in the term—in our local community, and nation at large. Thus, the spirit of a civic education permeates the course content.

Civics (1.0 credit)

Grade 12 2463

Civics students explore the origins of the American democratic system while looking at how the Constitution embodies the values and purposes set up by the Founding Fathers. The structure and function of the government will be analyzed on a national, state and local level while showing how each level is interrelated. Throughout the course, we will focus on how people play an active role in government and how each citizen contributes to society. This course is designed for students who intend to select a post-secondary path that might not include college.

ELECTIVE COURSE OFFERINGS

These are chosen in addition to, and not as replacements for, required Social Studies courses.

AP United States History (1.0 credit)

Grades 10-12 2201

The Advanced Placement course in United States history is designed to be the equivalent of a college survey course. It is designed to provide students with grounding in the subject matter of United States history and in major interpretive questions. This is a survey course in which a textbook, with supplementary readings in the form of documents, essays, or books on special themes, provides substantive and thematic coverage. This challenging course requires strong writing and reading skills, as well as dedication. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of primary sources, and historiography. This course prepares students to take both the required Advanced Placement exam in May and the SAT II test in United States History.

AP Macroeconomics (1.0 credit)

Grades 10-12 2471

Students in this source study the determinants of the aggregate level of economic activity in a global economy. Attention focuses on the demand for output by households (consumption), businesses (investment), government and trade with the rest of the world (net exports), as well as the roles played by fiscal and monetary policies. Topics covered include: Keynesian and classical models of aggregate supply and demand, the banking system and money creation, inflation, unemployment, public debt burdens, and determinants of economic growth. Students who enroll in this course are required to take the Advanced Placement Examination.

AP Microeconomics (1.0 credit)

Grades 10-12 2472

Students in this course study the behavior of individual components of the economy and the economic relationship among them. For example, a typical problem in this course would be to determine the optimal price a company should charge for a new product. In determining the solution to the problem, it is necessary to consider microeconomic data such as the company's production costs, the degree to which the price changes affect the quantity demanded of the new product, and the prices which competing firms charge for similar products. Students who enroll in this course are required to take the Advanced Placement Examination.

AP World History (1.0 credit)

Grades 11-12 2501

The purpose of AP World History is to explore the evolution of civilizations across the globe and the increasing complexity of their interactions. Unlike other AP history courses, AP World takes a more thematic approach and focuses less on details and more on thematic changes and comparisons. The course highlights the processes of change and continuity in the social, economic, political, and cultural developments of societies across the world, from the development of agriculture to the present.

This course is taught at the college level. The major difference between a high school and college level history course is the amount of reading and depth of focus. Moreover, the AP curriculum stresses a large degree of higher order thinking skills within a rigorous academic context. Thus, the student will be required frequently to analyze, synthesize and evaluate primary and secondary

historical sources in addition to memorizing, comprehending, and applying facts.

Anthropology: A Study of People and their Cultures (1.0 credit)

Grades 10-12	2510

In this introductory Anthropology course, students learn about the main fields within Anthropology and the development of human culture. Archaeology, the great apes, human evolution, the foundations of human behavior and diversity of culture are all topics that will be studied. Once a general foundation and understanding of the study of Anthropology is established, students will use their skills and knowledge in the study of a variety of cultures, both past and present, from around the world. This experience will be enhanced by a variety of hands-on activities and films that will allow students to directly experience this social science. These include an in-class archaeological dig, hominid skull comparisons, examinations of various cultural practices, and, when possible, a field trip.

Introduction to Philosophy (1.0 credit)

Grades 10-12	2530

In this course, students will be exposed to critical thinking, invited to search for answers to life's mysteries, and offered an opportunity to challenge preexisting beliefs about humanity and society.

In this course, students will be exposed to the Foundations of Western Philosophy from the Greek Classical period through contemporary American and European postmodern theory. Concepts, strategies, and frameworks will then be applied to literature, art, music, film, television, and popular culture.

Introduction to Psychology (1.0 credit)

Grades 10-12	2540

This course will explore fundamental psychological concepts and theories in a survey of major topics. Units will initially focus on major psychological research and conclusions about given aspects of human behavior. Students will articulate important critiques and arguments in a variety of fields of psychology. Class activities and assignments will demand that students reach beyond conventional thinking by using psychological information and principles to make their own observations about human behavior. Topics of study may include: childhood and adolescence, sensations and perception, learning and intelligence, personality, and mental illness. The program should prepare students for the introduction to psychology course required by many colleges and provide students with the opportunity to explore vocational and professional career possibilities in the behavioral sciences. Students who elect this course must read selected materials, carry out research projects, write papers, and pursue field study investigations.

AP Psychology (1.0 credit)

Grades 10-12	2541

AP Psychology will introduce students to the systematic and scientific study of human behavioral and mental processes. Students will examine psychological facts, principles, and phenomena associated with the many subfields of psychology such as child development, abnormal psychology, consciousness, neuroscience, etc. Students will be introduced to the ethics and methods of psychological science and practice within each of the subfields. The Advanced Placement course of study will include text study, hands on laboratories, periodical readings, and demonstrations in research and writing. Students who enroll in this course are required to take the Advanced Placement Examination.

World Religion (1.0 credit)

Grades 11-12	2520

Religion is one of the most universal aspects of human life. Throughout history, no civilization has been without religion. Today, faith continues to be essential to countless people and to be influential in global events. As pervasive and important as religion is, however, most Americans are largely ignorant of the teachings, historical development and way of life of the world's faiths. This course seeks to provide a starting point for your study of the world's multifarious religions.

This course explores five of the major religions of the world: Hinduism, Buddhism, Judaism, Christianity and Islam. We will learn about these religions through studying their important texts, primarily their scriptures. These texts (*the Bhagavad Gita*, *the Dhammapada*, *the Tanakh*, *the Bible*, *the Qur'an*, along with many others) are challenging to grasp, but your reading will be supported by instruction and discussion in class.

This course seeks to help students develop an appreciation for the traditions of faith and to foster open-mindedness. In that spirit and to further our understanding of each religion, we will host a guest speaker from each faith. Students will also research another religion of their choosing and share their research with the class. Finally, students will seek to understand how religion functions in people's lives through a project which combines interviewing and reflection.

African-American Studies (1.0 credit)

Grades 10-12	2551

The African-American Studies course is designed to provide students with a comprehensive overview of the African-American experience beginning with Africa through modern times. The course will address: ancient Africa, African explorations of the world, the weakening of Africa, European colonialism, slavery in the Americas, abolition/emancipation, and the social and political challenges and triumphs that followed. In addition, the course will highlight the contributions of African-Americans to American society in the arts, literature, music, politics, science, religion, and medicine. Lastly, the course will examine the current state of African-Americans in the 21st century, how far we have come vs. how far we have yet to go, including the Black Lives Matter movement. Students will gain a greater appreciation for the way in which African-American History is inseparably woven into the greater context of American history.

Social Issues, Social Justice (1.0 credit)

Grades 10-12	2521

Expanding the diversity of course offerings for the SHHS Social Studies Department, this course will introduce students to contemporary social justice issues and assist them in discovering their ability to create positive change in their communities. Students will have an opportunity to analyze the evolution and intersection of race, ethnicity, gender, sexual orientation, and class in America.

SPECIAL EDUCATION

The goal and vision of the Strath Haven High School Special Education Department is to empower all students to reach their full potential through provision of a challenging, supportive learning environment that provides high quality instruction and support services.

Students needing to meet their academic requirements in a supportive/adapted learning environment may be assigned to classes in the Special Education Program. All course placements in Special Education are made based on a collaborative IEP Team decision, driven by diagnostic and cognitive data. The curriculum in Science and Social Studies Courses is adapted from that of the general education courses and assessment based on students' identified strengths and needs. Mathematics and reading classes provide specific research based interventions to address specific student needs.

General Science (1.0 credit)

4620
9040: Insights

General Science is a semester long course that Instruction is based upon Alternate Eligible content aligned to the PA Core Standards. Students will be introduced to basic concepts in Earth Science, Biology, Environmental Science and Chemistry. Vocabulary and reading comprehension instruction is embedded into instruction and classroom discussions. Participation in this course is determined by a student's IEP team and based on individual needs, and supports the transition to postsecondary education/training, employment, and independent living.

General Social Studies (1.0 credit)

2620
9020: Insights

General Social Studies is a semester long course that supports the transition to postsecondary education/training, employment, and independent living. Instruction is based upon Alternate Eligible content aligned to PA Core Standards. Students will be introduced to basic concepts in in Civics & American Government, American History, World History, Economics, and Current Events. Vocabulary and reading comprehension instruction is embedded into instruction and classroom discussions. Participation in this course is determined by a student's IEP Team and based on individual needs.

Reading Intervention 1 (1.0 credit)

1870
9010: Insights

English/Reading Intervention I is a full-year course that uses an intensive, comprehensive literacy curriculum for students who are substantially below grade-level expectations. With an explicit, systematic approach, this curriculum integrates instruction in foundational skills, writing, vocabulary, fluency, grammar, comprehension, and spoken English. The curriculum weaves all of the necessary strands of literacy into six instructional steps of a daily lesson to meet the needs of any struggling student, including special education students and nonreaders. Students engage in whole and small group activities and discussions throughout the course. In addition, students' progress is monitored through reading comprehension evaluations and Lexile assessments. Placement in this course is based on a diagnostic reading assessments, a course decision tree and recommendation of the IEP Team.

Reading Intervention 2 (1.0 credit)

1890

English/Reading Intervention II is a full-year course that is a continuation of Reading Intervention I. This course uses an intensive, comprehensive literacy curriculum for students who are substantially below grade-level expectations. With an explicit, systematic approach, this curriculum integrates instruction in foundational skills, writing, vocabulary, fluency, grammar, comprehension, and spoken English. The curriculum weaves all of the necessary strands of literacy into six instructional steps of a daily lesson to meet the needs of any struggling student, including special education students and nonreaders. Students engage in whole and small group activities and discussions throughout the course. In addition, students' progress is monitored through reading comprehension evaluations and Lexile assessments. Placement in this course is based on a diagnostic reading assessments, a course decision tree and recommendation of the IEP Team.

PREREQUISITE: Successful completion of Reading Intervention 1.

Reading Intervention 3 (1.0 credit)

1895

English/Reading Intervention III is a full year course structured to continue to build upon vocabulary,

comprehension skills, fluency and written expression. A research-based reading intervention is utilized for the course. Students read and respond to a variety of fiction and nonfiction texts with vocabulary instruction, comprehension strategies and writing instruction and tasks woven in as each text is explored. Students have access to individualized instruction through software which adjusts to target each student's levels and needs. Students work in whole group, small group and at times, individual settings. Supplemental texts including current events, poetry, transition-related texts, and at least one novel are also utilized over the course of the year. Placement in this course is based upon diagnostic reading assessments, a course decision tree and the recommendation of the IEP team.

Mathematics Intervention 1 (1.0 credit)

3264

This course is designed for students who are below grade level in math. Students work on individualized IEP goals in order to remediate and acquire new skills. i-Ready is a research-based intervention being implemented within this course. It is aligned to Common Core State Standards. The program encompasses pre-readiness math skills; fundamental math skills (numbers, operations, measurement, estimation) while incorporating higher-order math skills such as data analysis and problem-solving. This program is also supplemented with a web-based program, IXL.com to allow for continued independent skills practice. Placement in this course is based on diagnostic math assessments and recommendations of the IEP Team.

Mathematics Intervention 2 (1.0 credit)

3531

This course is designed for special education students who are below grade level in math, but ready to be introduced to Algebra. Voyager: Inside Algebra is the research-based intervention being utilized in this course. It is a multitier, systemic, scalable approach with supports and tools for differentiated instruction. It is supplemented with an internet-based program, IXL.com which allows special education students to practice their Algebra skills as well as work on remediating skills. Both programs are aligned with the PA Common Core Standards and provide for rigorous instruction. Placement in this course is based on diagnostic math assessments and recommendations of the IEP Team.

Learning Center (1.0 credit)

9110 (fall Supplemental Support
9120 (spring Supplemental Support)
9160 (fall Autistic Support);
9161 (spring Autistic Support)
9130 (fall Hearing Support)
9140 (spring Hearing Support)
9240 (fall Emotional Support)
9241 (spring Emotional Support)

The Learning Center is a semester-long course designed to provide academic, social, and/or emotional support to special education students who are eligible for services. This program provides individual and small group instruction and academic support in all subject areas that are appropriate to meet the needs of the student and as defined in the IEP.

Learning Center (.5 credit)

9108: 40-minute learning center opposite Reading Intervention

9109: 40-minute learning center opposite Math Intervention

The Learning Center is a semester-long course designed to provide academic, social, and/or emotional support to special education students who are eligible for services. This program provides individual and small group instruction and academic support in all subject areas that are appropriate to meet the needs of the student and as defined in the IEP. These learning centers are utilized when students are enrolled in only math or reading intervention, rather than both intervention courses.

VISUAL AND PERFORMING ARTS

The following programs are included in the Art and Design and Performing Arts Departments:

Art Department: 2D Art, Ceramics, Graphic Design, Photography & Video
Performing Arts Department: Music, Drama

All courses in this department will be credited toward the Fine and Applied Arts, Business and Computer Science requirement for graduation.

ART DEPARTMENT: 2D ART, CERAMICS, GRAPHIC DESIGN, PHOTOGRAPHY & VIDEO

The mission of the art department is to provide a student-centered learning environment focused on individual artistic creation, safe studio practice, and creative thinking. Areas of study within the art department include 2D Art, Ceramics, Graphic Design, and Photography & Video. These areas give students the opportunity to express themselves and communicate ideas through visual means. Students are challenged to define and solve artistic problems with insight, reason, and technical proficiency. Our students will learn the importance of visual communication in contemporary society.

OVERVIEW
Course offerings in the art department are elective. These courses are designed to provide an opportunity for all students to pursue the study of art with an in-depth focus through consecutive course levels or as an avocation through introductory level classes. These classes are Art 1, Ceramics 1, Graphic Design 1, and Digital Photography 1. Students may take an introductory level class at any grade level, 9-12.

Students wishing to continue a more in-depth study of art can continue on to the intermediate level with the following classes: Art 2, Ceramics 2, Graphic Design 2, Digital Photography 2, and Video & Broadcast Production. Having taken the prerequisite classes, all interested students are welcome to take these intermediate-level courses.

For the dedicated and serious art student, mastery-level coursework focused on portfolio development continues in our advanced level courses: Art 3, Ceramics 3, Graphic Design 3, and Graphic Design 4. In addition, Advanced Placement Art & Design is offered to all 12th graders from all advanced level art courses (Art 3, Graphic Design 3, Ceramics 3, Art 3, and Digital Photography 2, and Video & Broadcast Production). Taken as a continuum, these courses are specifically designed to prepare the Strath Haven art student for post-secondary study in art.

The culminating art course at Strath Haven is Advanced Placement Art & Design. This course is specifically designed to offer 12th grade students a college-level art curriculum while still in high school. There is no final test or examination for this course; instead, an actual portfolio of required artwork is assembled and submitted to the College Board. This course is also designed to prepare the Strath Haven art student for post-secondary study in art. Students in 12th grade interested in taking this course must have successfully completed the introductory, intermediate, and advanced portfolio level prerequisite art courses.

Art students are encouraged to take an emphasis in a particular area for comprehensive portfolio development. **Below are suggested paths for students who might be interested in visual art as a career or continuing in post-secondary study.**

	2D Art Emphasis	Ceramics Emphasis	Graphic Design Emphasis	Photography Emphasis
Year 1	Art 1	Ceramics 1	Graphic Design 1	Digital Photography 1
	NOTE: A student may take an introductory level class at any grade level, 9-12.			
Year 2	**Art 2** and/or Graphic Design 1, Ceramics 1, Digital Photography 1	**Ceramics 2** and/or Art 1, Graphic Design 1, Digital Photography 1	**Graphic Design 2** and/or Art 1, Ceramics 1, Digital Photography 1	**Digital Photography 2 OR Video & Broadcast Production** and/or Art 1, Ceramics 1, Digital Photography 1, Graphic Design 1
Year 3	**Art 3** and/or Graphic Design 2, Ceramics 2, Digital Photography 2	**Ceramics 3** and/or Art 2, Graphic Design 2, Digital Photography 2	**Graphic Design 3** and/or Art 2/Art 3, Ceramics 2, Digital Photography 2	**Digital Photography 2 OR Video & Broadcast Production** and/or Art 1, Ceramics 1, Digital Photography 1,Graphic Design 1
Year 4	**AP Art & Design—2D**	**AP Art & Design—3D**	**AP Art & Design—2D** and/or **Graphic Design 4**	**AP Art & Design—2D**

INTRODUCTORY ART COURSES

Art 1 (1.0 credit)

6010 Grades 9-12

Learn to draw, paint, and create! This course exposes students to a variety of two-dimensional art including: drawing, painting, printmaking, collage, book arts and more. Students will learn to use a variety of materials such as charcoal, pencil, watercolor, and acrylic paint. This introductory level course is recommended for all students and is the prerequisite for all other 2D Art courses.

Ceramics 1 (1.0 credit)

6030 Grades 9-12

This introductory course exposes students to many diverse techniques and elements of three dimensional design using clay. Students learn proper hand building and wheel throwing techniques according to thematic activities. Firing, glazing, and surface treatment are also addressed. This course is the prerequisite for all other Ceramics courses.

Graphic Design 1 (1.0 credit)

6040 Grades 9-12

Create digital art and graphics with Adobe Photoshop and Illustrator. This entry level course will teach you the menus and toolbars as you create designs that express yourself with digital art. There will be a focus on the Elements of Art & Design This course is the prerequisite for all other Graphic Design courses.

Digital Photography 1 (1.0 credit)

6200 Grades 9-12

Digital Photography 1 is designed to provide basic instruction in the production of photography and video, as well as aesthetic and media literacy strategies that will help students to understand the relationship of visual media to contemporary communications. In photography units, students explore camera and lighting techniques, composition strategies, and digital editing. During video units, students learn the basics of documentary video production, including storyboarding, capturing audio,

and video communication strategies. Emphasis shifts between using industry-standard software like the Adobe suite, and using online tools and apps that are available to any user. Students complete this course with a portfolio of photography, digital video, and applications to art and media projects

INTERMEDIATE ART COURSES

Digital Photography 2 (1.0 credit)

6220 Grades 10-12

This course provides students with the opportunity to effectively communicate ideas and information via digital photography, through pursuing projects that extend on concepts introduced in the prerequisite course. Students completing this course successfully will be able to demonstrate proficiency in digital photography through the production of a portfolio-quality body of work, displayed either in a personal exhibition of prints or on a student-designed website.

PREREQUISITE: Digital Photography I.

Video and Broadcast Production (1.0 credit)

6190 Grades 10-12

Students will learn to create (write, shoot, edit) and produce documentary-style broadcast video stories. The class will focus on documenting school and community programs and events using video and multimedia tools. Students will learn the history of broadcasting, video, audio, and graphic techniques and equipment, as well as writing planning techniques for video production in a project-based learning environment. Students will learn to create professional video stories in a variety of formats from traditional broadcast publishing platforms to social media.

PREREQUISITE: Digital Photography I.

Art 2 (1.0 credit)

6050 Grades 10-12

This course is offered to the student who wishes to pursue an in-depth study of painting and printmaking. Building on the knowledge of color theory, painting, and printmaking techniques learned in Art 1, students will explore intermediate levels of art making. Media will include acrylic paint, watercolor, dry-point etching, relief printmaking, and book arts. Students concentrate on developing their own visual language of expression. Students will also develop a sketchbook of solutions to drawing problems and color theory assignments. Cohesive portfolio development is an integral component of this course.

PREREQUISITE: Art I.

Ceramics 2 (1.0 credit)

6060 Grades 10-12

After successful completion of Ceramics 1, this advanced ceramics course will encourage further development of studio pottery techniques. Advanced hand building and wheel throwing approaches will be addressed. Personalized thematic works will be chosen and created according to student interest and teacher discretion.

PREREQUISITE: Ceramics 1.

Graphic Design 2 (1.0 credit)

6080 Grades 10-12

This is the next level course using Adobe Photoshop and Illustrator with the introduction of InDesign. There will be a focus on the Elements and Principles of Design. The option of using tablets will be introduced for drawing as student's design posters, short animations, three-dimensional package designs, and digital art.

PREREQUISITE: Graphic Design 1.

ADVANCED/PORTFOLIO ART COURSES

Art 3: Portfolio Preparation (1.0 credit)

6100 Grades 11-12

Art 3: Portfolio Preparation is designated for students interested in building a portfolio for college admissions. Students wishing to take this course are required to have successfully completed Art 1 and Art 2 OR Graphic Design 1 and Graphic Design 2 OR Digital Photography 1 and Digital Photography 2/Video and Broadcast Production. This course emphasizes creative self expression and problem-solving along with observational drawing. Students will create a comprehensive art portfolio that they can use as part of their college application.

PREREQUISITE: Art 1, Art 2 OR Graphic Design 1, Graphic Design 2, OR Digital Photography 1, Digital

Photography 2/Video and Broadcast Production

Ceramics 3 (1.0 credit)

6070 Grades 11-12

This course is designed for students who have mastered all of the basic wheel throwing and hand building skills previously taught in Ceramics 1 and Ceramics 2. This demanding three-dimensional foray into the world of visual arts and crafts will have students combining techniques to create experimental, sculptural, and highly functional ceramic works of art. Surface treatment and glazing techniques will be an integral part of every work.

PREREQUISITE: Ceramics 1 and Ceramics 2.

Graphic Design 3 (1.0 credit)

6110 Grades 11-12

This course is a portfolio-based course using Adobe Photoshop and Illustrator for students who are considering a post-secondary career in graphic design or would like to expand their advanced skills. Students delve into projects such as advanced poster design and illustration, logo design, business identity, typography, package design and animation. Students also may pursue projects of their own interest as they learn advanced techniques.

PREREQUISITE: Graphic Design 1, Graphic Design 2. It is helpful but not necessary to have had Art 1 for this class.

Graphic Design 4 (1.0 credit)

6170 Grades 11-12

This advanced class is for students who have mastered the Adobe Photoshop and Illustrator programs. Students will concentrate on digital art and/or a business identity in which they will design an entire business. This work can be used in their college portfolio or as part of their AP Art & Design portfolio. In this class students will concentrate on a body of work that will establish their own style using computer programs. This is for the serious student who wants to go to college for graphic design or who is interested in developing their work to a higher level.

PREREQUISITE: Graphic Design 1, Graphic Design 2 and Graphic Design 3 (it is helpful but not necessary to have had Art 1).

ADVANCED PLACEMENT ART COURSES

AP Art & Design 2D and Drawing (2.0 credit)
AP Art & Design 3D

6011: 2D Grade 12
6021: 3D Grade 12
NOTE: This is a full-year course offered for two credits.

AP Art & Design is the culminating studio art course at Strath Haven High School. It is intended to offer students a college-level art curriculum within the high school setting. Studio work and homework assignments are designed to address inquiry-based learning, investigation through practice, experimentation and revision. This course supports the artist's investigation and exploration of a variety of visual concepts and interests over the duration of two semesters. Students will be expected to produce 20 works of high quality works of art required by the College Board and AP Art & Design guidelines. These art works will focus on in-depth, inquiry-based art and design making, explore a synthesis of materials, and investigate processes and ideas. Students will be required to keep and maintain an artist sketchbook. Students must complete homework assignments and create art work beyond the 80 minute block. Students will create a comprehensive art portfolio that they can use as part of their college application.

For the AP Art & Design portfolio, emphasis will be placed on the following artistic concerns:

- Continued development and mastery of art making skills
- Application of color and design principles
- Evolution of a body of art work that is of the student's choice
- In-depth exploration and investigation of a thematic visual idea
- Development of an artist sketchbook and documentation of ideas and concepts
- Materials and techniques including painting, printmaking, sculpture, photography, and design
- Recognition and influence of art history and criticism
- Importance of the artists' role in society
- Written and oral critique and criticism including proper art vocabulary

PREREQUISITES:
AP Art & Design-2D Design and Drawing: Art 1, Art 2, Art 3;
AP Art & Design-2D Design: Graphic Design 1, Graphic Design 2, Graphic Design 3;
AP Art & Design-2D Design: Digital Photography 1, Digital Photography 2, Video & Broadcast Production;
AP Art & Design-3D: Ceramics 1, Ceramics 2, Ceramics 3.

MUSIC COURSES

Instrumental Music (1.0 credit)

7400 Grades 9-12

This course is for students who wish to improve their skills in playing a musical instrument with an emphasis on reading music. Students are graded on the basis of individual improvement in music production and reading ability. This course is also appropriate for those students who have just begun or wish to begin to learn to play a musical instrument.

Advanced Instrumental Music (1.0 credit)

7410 Grades 10-12

This is an advanced performance course for music students wishing to continue to improve their instrumental music performance skills. This course is ideal for students preparing for band or orchestra auditions, or studying privately. Note: Students may repeat this course for additional credit with departmental approval.

PREREQUISITE: Instrumental Music.

Vocal Music (1.0 credit)

7510 Grades 9-12

This course is for students who wish to improve their skills in vocal technique with an emphasis on reading music. Students are graded on the basis of individual improvement in music production and reading ability. This course is also appropriate for those students who have just begun to sing or wish to start singing.

Advanced Vocal Music (1.0 credit)

7515 Grades 10-12

This is an advanced performance course for music students wishing to continue to improve their vocal music performance skills. This course is ideal for students preparing for vocal or choral auditions, or studying privately. Note: Students may repeat this course for additional credit with departmental approval.

PREREQUISITE: Vocal Music.

Introduction to Guitar (1.0 credit)

7420 Grades 9-12

Introduction to Guitar is a course designed for students with little or no previous guitar playing experience. In this class, students will learn how to tune the guitar, correct posture for playing the instrument, basic note reading skills, aural skills, tablature reading skills, flat-picking, rhythmic patterns, strumming styles, chords, finger-picking patterns and improvisation. Students will perform individually as well in group settings in a wide variety of musical styles including classical, flamenco, blues, jazz, rock, pop, and metal genres. In addition, history of the guitar through the ages as well as musicians most associated with the instrument will be studied. Guitars, music, and accessories will be provided in this course.

Exploring Music Software and Composition (1.0 credit)

7480 Grades 9-12

This introductory course to music theory and composition prepares students to write in both instrumental and vocal idioms. Students in this class will

learn to compose, sequence, and record using the latest technology in the field of music. The course will focus on the use of the Finale music-notation program, Sibelius music-notation program, Pro Tools sequencing program, Cubase Sequencing Program, Mix Craft composition program, and Ear Master theory program.

Rock/Popular Music Composition (1.0 credit)

7500	Grades 10-12

In this course, students will utilize the music programs introduced in Exploring Software and Composition to create various styles of music in the rock and roll genre. In addition, students will study the cultural history of rock and roll music from the blues to the present, write and analyze lyrics, and study concepts of music theory.

PREREQUISITE: Exploring Music Software and Composition

Advanced Theory/Composition (1.0 credit)

7520	Grades 10-12

This course utilizes the music technology lab for advanced composition, orchestration, and arranging. The students in this course will also study harmonic analysis and college level music theory.

PREREQUISITE: Exploring Music Software and Composition or permission of the instructor.

Advanced Placement Music Theory (1.0 credit)

7521	Grades 10-12

The AP Music Theory course is a college-level class that will prepare each student for the required AP Music Theory exam. The class will concentrate specifically on music theory, critical listening, sight singing and dictation. The students will also use the music technology lab to compose original compositions based upon traditional forms.

PREREQUISITE: Exploring Music Software and Composition or permission of the instructor.

Jazz Workshop (1.0 credit)

7550	Grades 9-12

This course gives students an opportunity to learn the theory and practice of jazz harmony and improvisation. Students will study the formation of jazz chord voicings, and use these voicings to create original pieces and arrangements on either the Finale music-writing program or the Sibelius music-writing program in the music technology lab. The students will also study the tension and release system of bebop improvisation, and apply this system to improvisation in a group setting, and with the accompaniment program, Band-in-a-Box. In addition, the class will learn the basic history of jazz, and be able to trace its progression through the components of music learned in class.

The Social, Political, and Cultural Evolution of Popular Music in Film: Rockabilly to Rap (1.0 credit)

7491	Grades 9-12

This course studies the evolution of the use of popular music in films from the 1950s to the present as it relates to social, political and cultural changes. Throughout the semester, students will study the ways that popular music was incorporated into films starting with the use of Rock Around the Clock in the film Blackboard Jungle. The students will work independently, in small groups and as a class to research the social, political and cultural changes that occurred as the use of popular music in films evolved. The students will also give presentations related to independent and group research, and they will determine the ways that the social climate affected the use popular music and film from 1955 to the present.
This class is intended for all students that are interested in film and music. There is no prior music knowledge required.

Music in Politics and Social Change (1.0 credit)

7471	Grades 9-12

Students will study American music from Beyoncé to Yankee Doodle as it relates to politics and society. Music comments on current events. From Colonial times through today, Music in America shares a common theme: a passionate representation of the world around it. Non-music students and musicians will learn how music was present in America's major political concerns: the Federalist vs. States' rights issue, people of color representation through Blackface Minstrelsy, America's changing heart as slavery became a divided issue, pacifism and war propaganda, gender identity, women's leadership roles in forming America's musical scene, environmental preservation vs. coal mining, neoliberalism and its cultural boiling point, and the role of racial minorities in culture. This class is intended for all students that are interested in American history, current events, social justice issues, and the role music played. As an artifact for portfolios, students complete a college-level musicology research paper with instructor guidance. There is no prior music knowledge required.

PERFORMANCE COURSES

The following courses are for students who wish to perform in a choral or instrumental group. If you are an instrumentalist or singer of any caliber or background,

you are cordially welcome! Please check with instructors for details beyond those listed in the course descriptions.

Marching Band (0.5 credit)

7425: Semester 1	Grades 9-12 Scheduled Period 5

The Panther Marching Band is the largest in Pennsylvania and completes a season from Late Summer Band Camp through Fall. The Band includes instrumentalists, Danceline, Dance Team, Silks, and Honor Guard. Typical performances include halftime shows at all Strath Haven Football games, a halftime performance at a Philadelphia Eagles game, parades in Media, and the Penncrest Festival of Bands. Curriculum includes popular music with special emphasis on music to engage the audience. Both instrumentalists and dancers/flag performers at any skill level are invited to take this course.

Symphonic Band (0.5 credit)

7265: Semester 2	Grades 9-12 Scheduled Period 5

Symphonic Band begins rehearsals typically before Winter Break when the Marching Band season finishes. Students rehearse, perform, and study concert band music within a full-sized concert band. Curriculum includes standard concert band music with special emphasis on music written by composers of diverse backgrounds. The Symphonic Band performs at least three times: Winter Concert, Spring Concert, and Strath Haven High School graduation ceremony. Students at any skill level are invited to take this course.

Wind Ensemble (0.25 credit)

7266: Semester 2 By audition only	Grades 9-12 Scheduled Period 5
Corequisite: Symphonic band	

Wind Ensemble rehearsals begin typically before Winter Break when the Marching Band season finishes. The Wind Ensemble performs standard concert band repertoire written at the advanced high school or collegiate level. The curriculum emphasizes music written by composers of diverse backgrounds. The Wind Ensemble performs at least two times: Winter Concert and Spring Concert. Students must audition to take this course.

Jazz/Modern Band (0.5 credit)

7286: Winter and Spring BY AUDITION ONLY.	Grades 9-12 Rehearsal 1 night per week.

Corequisite for woodwind and brass players: one of these-Symphonic Band, Symphony Orchestra

The Panther Jazz Band is a full Jazz Orchestra with woodwind, brass, rhythm section, vocals, and strings. Curriculum includes rag, swing, blues, bebop, latin, funk, rock, and other genres. Modern Band is a complete rock and popular band for rhythm section and vocal students. Curriculum includes rock, pop, funk and other current genres. Curriculum includes music by composers from diverse backgrounds. Students must audition to take this course.

String Orchestra (1.0 credit)

7307: Full year	Grades 9-12 Scheduled Period 5

The String Orchestra includes string instruments only. Students rehearse, perform, and orchestral music within a full-sized Symphony Orchestra. Curriculum includes standard orchestral music with special emphasis on music written by composers of diverse backgrounds. The Orchestra performs at least three times: Fall Concert, Winter Concert, Spring Concert. Students at any skill level are invited to take this course. This is the course that all students who perform on string instruments (violin, viola, cello, and string bass) should register.

Symphony Orchestra (0.5 credit)

7306: Full year	Grades 9-12 Scheduled Period 5

The Symphony Orchestra includes woodwind, brass, and percussion instruments in addition to strings. Students rehearse, perform, and orchestral music within a full-sized Symphony Orchestra. Curriculum includes standard orchestral music with special emphasis on music written by composers of diverse backgrounds. The Orchestra performs at least three times: Fall Concert, Winter Concert, Spring Concert. Students at any skill level are invited to take this course. This is the course that all students who perform on wind and brass instruments should register.

Camerata (1.0 credit)

7320: FULL YEAR	Grades 9-12 Scheduled Period 5

The Camerata is a choral performing and study group. A wide variety of literature is performed, representing diverse cultural heritages from the Renaissance to the 21 st Century. Performances include a winter and spring concert, as well as performances for community groups. All students at any skill level are invited to take this course. Advanced students are given an opportunity to audition and participate in Cantata, Silvertones, and district, regional, and state chorus festivals.

Cantata (0.5 credit)

7330: Full year Corequisite: Camerata BY AUDITION ONLY	Grades 9-12 Scheduled Period 5

Cantata is an auditioned choral performing and study group. Sample Literature covers varied repertoire from Bach's Magnificat to contemporary composers. Performances include a winter and spring concert, as well as an annual performance of the Earth Mass in NYC. By audition only (Auditions held in the beginning of the fall semester).

Silvertones (1.0 credit)

7350: Full year BY AUDITION ONLY	Grades 9-12 Scheduled Period 5
Corequisites: Camerata and Cantata	

By audition only (Auditions held in the Spring of the previous school year)

Silvertones is a choral performing and study group. The Silvertones cover music from 16th century Italy to music in the style of college acapella. Performances include a winter and spring concert, as well as performances for community groups.The SIlvertones give a concert tour of Italy every other school year.

DRAMA

Theater Workshop (1.0 credit)

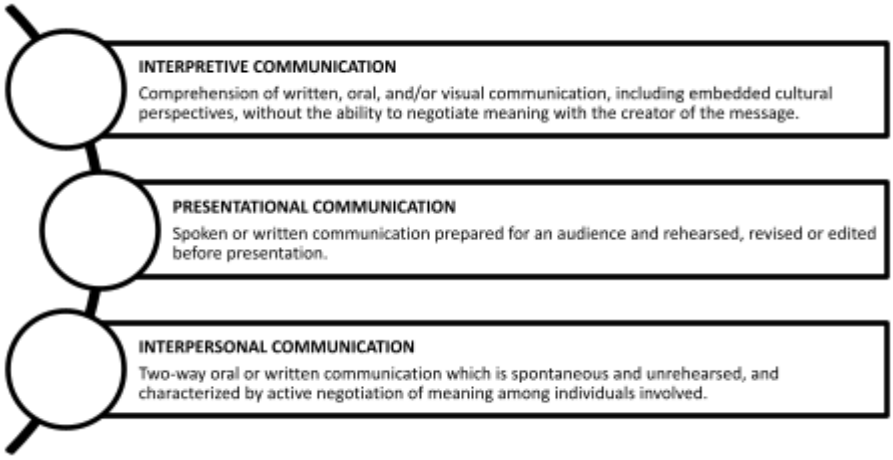
7060	Grades 9-12

This performance based course is an exploration of all facets of theater. From technical design to directing to acting. Each theatrical component will be explored through performance. The class will choose the theater piece, design and execute the script. The class will present multiple public performances to demonstrate the understanding of stage direction, acting, and design. There are no prerequisites for this course

WORLD LANGUAGE

The Partnership for 21st Century Skills asserts that the study of world language enables children to gain knowledge and skills necessary to succeed as effective citizens, workers and leaders in our twenty-first century world. When students study a world language, they expand their linguistic and cultural horizons. The study of world languages is also an effective way to build vocabulary skills, to understand grammar, and to gain an appreciation of other civilizations. College Board data, both for the nation and at Strath Haven High School, indicates a correlation of higher SAT scores with additional years of world language study.

To these ends, the World Languages Department provides a robust program that offers an extended sequence of language study in four languages at a variety of levels.



The college-bound student is strongly encouraged to study at least one world language in sequence during three years of high school. Since learning a world language is a cumulative, skill-based activity, both speaking and writing skills are best developed over an extended period of time.

Students with career plans involving international dimensions, or who possess strong world language skills and interest, are encouraged to pursue the study of a second world language. "Second language learners" find that once they acquire skills in a second language, the study of additional world languages is easier for them.

The Strath Haven High School transcript does not list or give credit for world languages studied prior to ninth grade. However, the titles of the world language courses listed on the transcript imply the successful completion of earlier courses at Strath Haven Middle School.

In conjunction with the *National Standards for Foreign Language Learning (Preparing for the 21st Century)* by ACTFL (the American Council on the Teaching of Foreign Languages), students concentrate their work in all courses in the following major goal areas and demonstrate proficiency in the following 3 Modes:

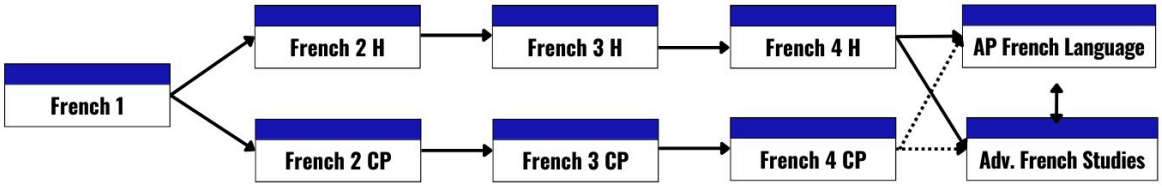


WORLD LANGUAGE COURSE SEQUENCE

CHINESE



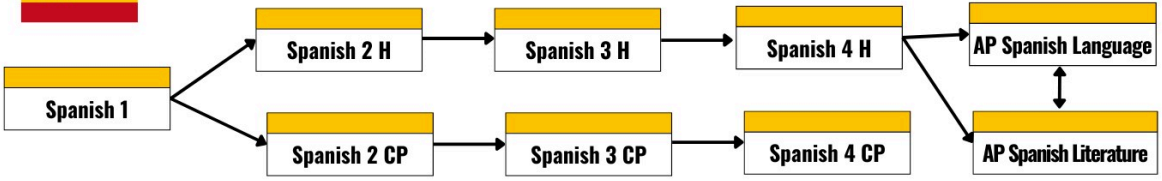
FRENCH



GERMAN



SPANISH



CHINESE

Chinese 1 (1.0 credit)

5502: Honors Grades 9-12

This course is the first half of a basic introduction to Mandarin, designed for students who are beginning their studies of the language for the first time. Students will develop skills in the four linguistic areas: listening, speaking, reading, and writing and will learn about formal and informal aspects of Chinese culture. A variety of teaching techniques is incorporated. Student participation and homework are integral components of the program.

Chinese 2 (1.0 credit)

5503: Honors Grades 9-12

This course is the second half of a basic introduction to Mandarin, designed for students who have successfully completed Chinese 1H. Students will continue to develop skills in the four linguistic areas: listening, speaking, reading, and writing and will learn about formal and informal aspects of Chinese culture. A variety of teaching techniques is incorporated. Student participation and homework are integral components of the program.

Chinese 3 (1.0 credit)

5521: Honors Grades 10-12

This course is the second level of introductory Mandarin, designed for students who have successfully completed Chinese 2H. Students will continue to develop skills in the four linguistic areas: listening, speaking, reading, and writing. They will continue to learn about formal and informal aspects of Chinese culture. A variety of teaching techniques are incorporated. Student participation and homework are integral components of the program.

Chinese 4 (1.0 credit)

5531: Honors Grades 11-12

This course is for students who have successfully completed Chinese 3H. Listening and speaking are continued in classroom situations. New grammar and vocabulary are introduced and reinforced in oral and written exercises and reading passages. The students use the Chinese language to produce compositions, and continue to study aspects of Chinese culture.

AP Chinese Language and Culture (1.0 credit)

5581: Advanced Placement Grades 11-12

This course is for students who have completed Chinese 4H. It is designed for students who wish to take the Advanced Placement Examination in Chinese Language. The cultural, political, and social ideas of the times are analyzed and discussed in conjunction with plays, novels, and other reading materials. Advanced level vocabulary and grammar study are used in conjunction with the assigned readings. Students will produce compositions and presentations pertaining to theme studies. Activities to prepare students for the required Advanced Placement Examination are practiced in the course. The course is conducted entirely in Chinese.

FRENCH

French 1 (1.0 credit)

5311: Honors Grades 9-12

This is an introductory course for students who are beginning their study of French. It is also an appropriate entry level point for students who are studying French as their second or third world language. This fast paced course will complete level one of French in one semester. The 3 modes of communication (Interpretive, Interpersonal and Presentational) will be developed through intensive acquisition of vocabulary, grammar and culture.

French 2 (1.0 credit)

5321: Honors Grades 9-12
5322: College Prep

After a brief review in the basic skill areas, students will continue to develop and expand the three modes of communication (Interpretive, Interpersonal and Presentational) through intensive acquisition of vocabulary, grammar and culture. New grammar, vocabulary and culture are integrated throughout each unit of study. At the end of each unit, students will demonstrate proficiency of the new concepts through Performance Assessments of the three modes of Communication. The French language is used extensively in all activities. Although French 2 Honors

and French 2 College Prep use the same textbook and workbooks, the Honors course proceeds at an intense, rapid pace covering more material; the College Prep course at a slightly more relaxed pace.

French 3 (1.0 credit)

5331: Honors Grades 10-12
5332: College Prep

After a brief review in the basic skill areas, students will continue to develop and expand the three modes of communication (Interpretive, Interpersonal and Presentational) through intensive acquisition of vocabulary, grammar and culture. New grammar, vocabulary and culture are integrated throughout each unit of study. At the end of each unit, students will demonstrate proficiency of the new concepts through Performance Assessments of the three modes of Communication. The French language is used extensively in all activities. Although French 3 Honors and French 3 College Prep use the same textbook and workbooks, the Honors course proceeds at an intense, rapid pace covering more material; the College Prep course at a slightly more relaxed pace. In addition, in the Honors course, students will read the short story, *Le Chandail de hockey* and the novel, *Oscar et la dame rose*.

French 4 (1.0 credit)

5341: Honors Grades 10-12
5342: College Prep

After a brief review in the basic skill areas, students will continue to develop and expand the three modes of communication (Interpretive, Interpersonal and Presentational) through intensive acquisition of vocabulary, grammar and culture. New grammar, vocabulary and culture are integrated throughout each unit of study. At the end of each unit, students will demonstrate proficiency of the new concepts through Performance Assessments of the three modes of Communication.

Although French 4 Honors and French 4 College Prep use the same textbook and workbooks, the Honors course proceeds at an intense, rapid pace covering more material and activities are conducted exclusively in French; the College Prep course proceeds at a slightly more relaxed pace and French is used extensively in all activities. In the Honors course, there is more emphasis on developing pre-AP skills. In addition, the Honors students will also read the classic, *Le Petit prince*.

AP French Language and Culture (1.0 credit)

5371: Advanced Placement Grades 11-12

This class is designed to increase the fluency and level of sophistication with which students express themselves in French, and develops their ability to understand the language and the cultures of the French-speaking world. AP French is designed to develop the ability to understand spoken French in various contexts, to develop a French vocabulary sufficient for reading newspaper and magazine articles and literary texts. The course is devoted to activities which specifically prepare students to take and succeed on the Advanced Placement exam and trains students in the interpersonal, interpretive, and presentational aspects of communication within the six themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. A variety of authentic materials will be used (newspapers, magazine articles, literature, podcasts, news programs, music) from many francophone sources. All activities are conducted exclusively in French.

Advanced French Studies (1.0 credit)

5381: Advanced Placement Grades 11-12

This literature and film course is the highest level French course designed for the student who has completed AP French language. (Students registered for AP French Language and Culture in the spring may register for this course in the preceding fall semester.) In this course students will read novels and watch films that discuss themes such as immigration and alienation, the role of women, West African society, existentialism, adolescence, family, and the French perspective on World War II. Novels include works by authors Guy de Maupassant, Jean-Paul Sartre, Marguerite Duras among others.

Students will read and discuss various works of literature, watch several films thematically linked to the novels and produce compositions and oral presentations analyzing the themes and characters from the novels and films. All activities are conducted exclusively in French.

PREREQUISITE: AP French Language and Culture or approval from French teacher.

GERMAN

German 1 (1.0 credit)

5411	Grades 9-12

This is an introductory course for students who are beginning their study of German. It is also an appropriate entry level point for students who are studying German as their second or third world language. This fast paced course will complete level one of German in one semester. Skills in Speaking, Listening, Reading and Writing will be developed through intensive acquisition of vocabulary and grammar. A study of the culture of German-speaking countries is also included.

German 2 (1.0 credit)

5421: Honors 5422: College Prep	Grades 9-12

After a brief review in the basic skill areas, the emphasis is on the continued development of listening and speaking skills and the expansion of reading and writing skills. Acquisition of additional vocabulary is stressed and the culture of the German-speaking world is also studied. Listening and speaking are continued in classroom situations, conversations, original presentations, and the use of authentic recorded materials. New grammar and vocabulary are introduced and reinforced in oral and written exercises and work with reading passages. The students use the German language to produce compositions, do supplementary reading, and continue to study about aspects of the German culture. The German language is used extensively in all activities.

In the honors course, students will complete additional content for each chapter, including video clips and newspaper articles. The students will also read and do a project on the novel, *Die Weiße Rose* and the related film *Sophie Scholl: The Final Days*.

German 3 (1.0 credit)

5431: Honors 5432: College Prep	Grades 10-12

The development of German listening and speaking skills is continued through classroom conversation, dialogues, and presentations. Emphasis is placed on the study of intermediate level grammar concepts. New structures and vocabulary are introduced contextually in classroom presentations and reading passages. Students read and discuss selections from literature and other authentic materials. Original compositions are written on various topics. Reading passages are used to expand the students' vocabulary, and writing skills are enhanced. Study of the culture of the countries of the German-speaking world will continue. The German language is used extensively in all activities.

In the honors course, students will complete additional content for each chapter, including video clips and newspaper articles.

German 4 (1.0 credit)

5441: Honors 5442: College Prep	Grades 10-12

This course combines a variety of advanced level listening, speaking, reading, and writing activities. Special projects are assigned to increase awareness, understanding and knowledge of cultural areas of the German-speaking world. The emphasis in the course is on the continued development of understanding and speaking skills as well as the development of writing proficiency through the use of compositions. Literary selections and other authentic materials are read and discussed. The class is conducted exclusively in German.

In the honors course, students will complete additional content for each chapter, including video clips and newspaper articles.

AP German Language and Culture (1.0 credit)

5481: Advanced Placement Grades 11-12

This course is for students who have completed German 4 and have received their teacher's recommendation to continue at the honors level. It is also designed for students who wish to take the Advanced Placement Examination in German language and culture. The cultural, political, and social ideas of the times are analyzed and discussed in conjunction with plays, novels, and other reading materials. Advanced level vocabulary and grammar study are used in conjunction with the plays, readings, and other. Students will produce writings in all four modes, and oral presentations pertaining to the theme studied. Activities to prepare students for the required Advanced Placement examination are practiced in the course. The course is conducted entirely in German.

Advanced German Studies (1.0 credit)

5471 Grades 11-12

This literature and film course is the highest level German course designed for the student who has completed AP German language. In this course, students will read novels and watch films that discuss themes such as immigration and alienation, life during World War II, adolescence, family, societal roles and works from the Enlightenment, and the concept of Sturm und Drang. We will read novels and poems by authors such as Franz Kafka, Johann Wolfgang von Goethe, Friedrich Schiller, and Friedrich Dürrenmatt among others. Students will read and discuss various works of literature, music, and watch several films thematically linked to the novels and produce compositions and oral presentations analyzing the themes and characters from the novels and films. All activities are conducted exclusively in German.

SPANISH

Spanish 1 (1.0 credit)

5712: College Prep Grades 9-12

This is an introductory course for students who are beginning their study of Spanish. It is also an appropriate entry level point for students who are studying Spanish as their second or third world language. Skills in understanding, speaking, reading, and writing Spanish are developed through the acquisition of the vocabulary and grammar of the language. A study of the cultures of the Spanish-speaking world is also included in the course.

Spanish 2 (1.0 credit)

5721: Honors Grades 9-12
5722: College Prep

This course reinforces and further develops the listening, speaking, reading, and writing skills acquired in the previous Spanish course. Continued emphasis is placed upon practical use of the target language. Students will deepen their communication in the target language through interpersonal speaking and writing, presentational speaking and writing and interpretive reading and listening. Special emphasis is placed on grammatical accuracy and building vocabulary for real world situations. Students will expand their ability to communicate about topics related to travel, recreational activities, food, technology, and daily life. Coursework includes selected readings, videos and presentations. Cultural topics also focus on the customs and traditions of the Spanish-speaking people. The Spanish language is used primarily in all class activities. In the Honors course, students are introduced to higher level grammatical structures, more vocabulary, and higher level reading materials.

Spanish 3 (1.0 credit)

5731: Honors Grades 10-12
5732: College Prep

This course reinforces and further develops the listening, speaking, reading, and writing skills acquired in the previous Spanish course. Continued emphasis is placed upon practical use of the target language. Students will deepen their communication in the target language through interpersonal speaking and writing, presentational speaking and writing and interpretive reading and listening. Special emphasis is placed on grammatical accuracy and building vocabulary for real world situations. Students will expand their ability to communicate about topics related to food, life events, travel, and daily routines. Coursework includes selected readings, videos and presentations. Cultural topics also focus on the customs and traditions of the Spanish-speaking people. The Spanish language is used primarily in all class activities. In the Honors course, students are introduced to higher level grammatical structures, more vocabulary, and higher level reading materials in preparation for AP coursework.

Spanish 4 (1.0 credit)

5741: Honors Grades 10-12

This course continues to develop student skills in all areas of spoken and written Spanish at the advanced

level through the study of vocabulary and grammar and work in composition. Students increase their awareness of the contemporary cultural, political and social scene in the Spanish-speaking world through the reading of authentic materials, both in print and from the Internet, and the use of audio-visual materials. Classical short novels are read, analyzed, and discussed in Spanish. Grammatical usage and vocabulary building are stressed in conjunction with the reading materials studied. Students practice their reading, writing, and vocabulary building skills with weekly writings based on current event articles. This class is conducted entirely in Spanish.

Spanish 4 (1.0 credit)

5742: College Prep Grades 10-12

This college prep level course is for students who have successfully completed Spanish 3. It continues to reinforce and further develop the listening, speaking, reading, and writing skills acquired in the previous Spanish courses.
Students are introduced to the geographical, historical, and cultural aspects of all the Spanish-speaking countries. Selected higher level reading materials and films are used to enhance the student's knowledge of the countries studied throughout the course. Continued emphasis is placed upon practical use of the target language. Students will deepen their communication in the target language through interpersonal speaking and writing, presentational speaking and writing and interpretive reading and listening. Grammatical usage and vocabulary building are stressed in conjunction with the reading materials studied. The Spanish language is used primarily in all class activities.

AP Spanish Language and Culture (1.0 credit)

5771: Advanced Placement Grades 11-12

While focusing on the six AP College Board recommended themes, this course is designed to increase the fluency and level of sophistication with which students express themselves and understand the Spanish language. The class will expose students to various cultures of the Spanish-speaking world. AP Spanish Language and Culture is designed to develop the ability to understand spoken Spanish in various contexts and to develop an advanced vocabulary that will help students to be less dependent on a dictionary. The course is devoted to activities which specifically prepare students to succeed on the Advanced Placement exam. Students will practice the interpersonal, interpretive, and presentational aspects of communication within the six themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. The course is conducted entirely in Spanish.

PREREQUISITE: Successful completion of Spanish 4 Honors

AP Spanish Literature and Culture (1.0 credit)

5781: Advanced Placement Grade 12

This is the highest level Spanish course designed for the student who has completed Spanish 4H. It emphasizes the contemporary Spanish civilization using authentic readings, short stories, excerpts of novels, poems and films as the basic texts. Advanced level speaking and writing skills are prerequisites for all students in the course. Students must keep a speaking and writing portfolio and complete a variety of projects, some of which may involve the use of technology. The course prepares students for the required Advanced Placement Spanish Literature and Culture examination. All activities are conducted entirely in Spanish.

PREREQUISITE: Successful completion of Spanish 4 Honors