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*Cover Artwork: Maysie Lewis, Class of 2022*
PURPOSE OF THE PLANNING GUIDE

This Program Planning Guide has been developed by the professional staff of Strath Haven High School to assist students in their academic planning for the duration of their enrollment. Its purpose is to help students and parents select the courses needed to meet graduation requirements and to be prepared for post high school education or an occupation. When students involve parents, counselors, and teachers in the planning process, the result will be the most appropriate individual program of studies.

The inclusion in the school’s master schedule of any course in the planning guide depends on the number of student requests and the availability of staff.

PHILOSOPHY

Strath Haven High School is the central public institution in our community, and the responsibility for education binds together the school, the parents, and the community at large. Sharing of school and community talents, facilities, and resources are encouraged. Interchange among students, teachers, parents, and other community members is essential to the success of the school community.

A sound education is the foundation for human fulfillment. The passing of knowledge and skills from one generation to another provides humanity with a precious opportunity to perpetuate what is valuable and to progress toward what is desirable. The institution that performs much of this task is the school.

Strath Haven High School is committed to providing an educational structure that stimulates excellence in learning through such processes as critical thinking, problem-solving, and discovery. Central to our educational program is gaining a mastery of knowledge and cognitive skills necessary for understanding our cultural heritage and, of equal importance, that of other societies.

Students are invited to engage in class discussions and conversations in the halls in ways that reflect respect for fellow students, staff, and teachers. Negative comments about anyone’s race, nationality, religion, physical appearance or ability, intellectual capability, gender identity, sexual orientation, work ethic or character are unacceptable and will not be tolerated. Students are encouraged to discuss any concerns with adults in the building.

Strath Haven High School respects the individuality of each student and provides a variety of learning experiences to help develop each student's values, talents, and abilities. The school encourages each student to set goals in many areas and to strive to achieve them in order to function effectively and responsibly in a democratic society. The school recognizes that excellence comes in many forms and that the pursuit of excellence has intrinsic value. Strath Haven High School provides opportunities for career exploration and personal development in preparation for occupational and family patterns which are constantly changing. Emphasis is placed on the value of satisfying work, constructive leisure, and physical and mental health.

MISSION STATEMENT

Strath Haven High School graduates will possess the ability to apply their knowledge and skills to:

✔ Act as responsible citizens engaged in their community, nation, and the world around them,
✔ Exhibit intellectual curiosity and aesthetic appreciation,
✔ Demonstrate self-awareness and informed critical thinking,
✔ Maintain personal integrity and healthy decision-making

in order to ensure success in post-secondary education, the workplace, and the home.
ACADEMIC REGULATIONS

REGISTRATION INFORMATION

Recognizing that students differ in talents, interests, and skills, some courses are offered with different academic requirements and expected student achievement.

Honors and Advanced Placement (AP) courses are intensive, accelerated, and enriched. They frequently require self-direction on the part of students to budget time, manage workload, and meet class requirements. Prerequisites established by departments are required for admission to most Honors courses.

College Preparatory courses are the central core of the school curriculum with considerable challenge to students progressing smoothly in their education. In a school where more than 90% of its graduates seek further education, a demanding program must and will be provided for all of its students. These courses are carefully balanced between the self-direction of the student and structure provided by the teacher.

Career/College Preparatory courses are designed to provide assistance to students who have difficulty with a particular subject due to a skills deficit. These courses follow the prescribed College Preparatory curriculum. Through smaller class sizes (generally 10-15 per class) and differentiated instruction, CCP courses offer hard-working, motivated students an opportunity to succeed in a subject of difficulty. Beginning in the 2018-19 school year and with the class of 2022, the high school will phase out CCP. Supports will be added to the CP classrooms in Math and English, as appropriate.

Teachers, counselors, and administrators carefully guide students with their recommendations for course placements. Students are advised to listen to this counsel and consider the professional recommendations offered.

All students and their parents ultimately have the responsibility to decide on an appropriate program of studies. Except in courses that have prerequisites, students are not restricted to a particular course. Over time, many students are able to take greater challenges. For others, a step back and a reduced pace may be the key to later success. The courses offered in Strath Haven High School provide that flexibility for all students.

The school day is divided into four class periods of 80 minutes each, with lunch scheduled in conjunction with the third block class. The large group music courses are scheduled during a 50-minute activity period at the end of the school day.

Students are required to register for a minimum of 8.0 credits and to schedule classes for all four blocks each semester. Students in their senior year may apply two of their eight credits towards Senior Exploration Programs.

COURSE REQUEST AND SCHEDULE CHANGE POLICY

The master schedule and the assignment of faculty are based on students’ course selections made during the prior spring. Students are encouraged to make their course requests based on careful deliberation as to which courses will best enable them to achieve their long-range goals. When students complete course registration, they are making a commitment to complete the courses requested.

Courses will be offered based on enrollment and availability. If a student requests a course that is not included in the master schedule or cannot be included in their individual schedule, they will be given the opportunity to revise his/her course requests.

Parents of students who disagree with a level placement may request, in writing, a review of the recommended placement with their student’s counselor and the appropriate teacher. Following the review, if an agreement cannot be reached, parents may apply to the administration for review of the placement. Upon review, the administration will make a determination as to the most appropriate course of action.

Students satisfactorily completing a pre-approved summer program by August 15th will be permitted to change their course requests, subject to class availability when they make the request.
To change the level of a class once a term has started, a student must have the recommendation of the current teacher of the course, the department representative, their school counselor, and the Principal. The teachers, counselor, and parents must confer regarding the request for level change. It is possible that other changes in the student’s schedule will be necessary to make the level change.

Students who change a course(s) after their transcripts have been submitted for admission to any program or institution must inform that program or institution of the change in writing, and provide a copy of the institution’s approval for the change to his or her school counselor.

**DROPPING DOWN A LEVEL/CHANGING COURSES**

- If a student drops down a level within the same course within the first five weeks of a course:

  The grade from the higher-level course is not recorded.

  Students are responsible for the missed material that was covered in the new class.

- If a student drops down a level within the same course after the first five weeks of a course:

  Grade from the higher-level course travels with the student in direct proportion to the time spent in the higher-level course. Student(s) must obtain signatures from teachers, school counselor, and administration to make this change.

- Students who wish to enter a new course within a department i.e., drop Calculus Honors to add Statistics, must do so within the first week of the semester. Students are responsible for the missed material covered in the new class.

- A course dropped during the second half of the semester will be given a grade of “Withdrawn Failing” (WF) or “Withdrawn Passing” (WP). “Withdrawn Failing” will be treated as an attempted credit when GPA is calculated; “Withdrawn Passing” will not. Both, however, will appear on the official transcript.

**COURSE REQUIREMENTS AND PREREQUISITES**

Course requirements and prerequisites have been established through a careful analysis conducted by teachers, counselors, and building administration. Once requirements have been established for a school year, they will not be waived for any reason. 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. Upon a schedule review, if a student is found to be enrolled in a course for which they do not qualify, the course will be removed from the student’s schedule and they will have to choose another elective. This process will be completed during the summer prior to the school year. Teachers and school counselors cannot override any course requirements or waive any prerequisites.

**REPEATING A COURSE**

The professional staff at Strath Haven High School believes strongly that students should experience a wide variety of academic opportunities throughout their four years of study. We also recognize the value of intensive study in an area of talent or particular interest, as well as the need to repeat a course on occasion to solidify and improve fundamental skills before advancing in a program of study.

As a result of these beliefs, students are permitted to repeat a course under the following conditions only:

- A student wishes to improve a grade of C or lower prior to electing an advanced course. In this instance, the first grade, as well as the credits, will be expunged. The initial course title will appear on the transcript, followed by the letter (R).
- A student wishes to advance in a course of study beyond that offered in a formal course. In this instance, an independent study application will be completed, and the student’s transcript will reflect an advanced independent study in the area of interest.
COURSE RECOMMENDATIONS

Teachers will make recommendations to students for the next course in a sequence. Recommendations are at the discretion of the teacher, but should be in consultation with the student and parent when a change in level is being suggested.

SUMMER SCHOOL REMEDIATION

Students who enroll in a summer school course to gain credit for a failed course or to raise a “D” to a “C” must advise Strath Haven High School before the course begins. The school where the course is taken must be accredited and they must provide Strath Haven High School with an official record of the student's participation and the grade received. If a passing grade is earned, a “D” will be entered on the transcript in place of the original “F”. If a “C” or better is earned, a “C” will be entered on the transcript in place of the original “D”. Students may only raise a prior grade by one (1) letter grade through summer school coursework. Summer school courses may not raise a student’s course grade higher than a C on the student transcript.

ADVANCED PLACEMENT COURSES

Advanced Placement (AP) courses are offered at Strath Haven High School and they follow the prescribed AP curriculum set by the College Entrance Examination Board. Such courses are approved by the College Entrance Examination Board as equivalent to college level instruction and are offered in most curricular areas. Strath Haven High School administers College Board AP examinations that allow students to earn college credit for the courses.

In 2010 the Board of School Directors mandated that Strath Haven High School require students who enroll in Advanced Placement courses to take the Advanced Placement exam administered by the College Board in May. Students are expected to pay for the exam, but may request assistance with the fee(s).

Course credit will be issued in these courses only upon completion of the teacher and board established course requirements. Failing to receive credit in certain AP courses, just as in any course, could affect a student’s meeting graduation requirements for total credits, or credit distribution.

GRADUATION REQUIREMENTS

The following graduation requirements are approved for students. Courses that meet every day for one semester earn 1.0 credit. 5th block music elective courses that do not meet for an entire semester earn partial credits (ex: 0.25, 0.5, 0.75 credits). The Pennsylvania Board of Education requires that all students demonstrate proficiency in the Keystone Exams in Algebra I, Literature, and Biology. These exams are administered in January and May each year. To earn a diploma from Strath Haven High School, a student must also meet the following requirements:

<table>
<thead>
<tr>
<th>Program</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>5.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4.0</td>
</tr>
<tr>
<td>Mathematics+</td>
<td>4.0</td>
</tr>
<tr>
<td>Science</td>
<td>4.0</td>
</tr>
<tr>
<td>World Language*+</td>
<td>3.0</td>
</tr>
<tr>
<td>Fine and Applied Arts*</td>
<td>3.0</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>2.0</td>
</tr>
<tr>
<td>Other Credits</td>
<td>4.0</td>
</tr>
<tr>
<td>Total</td>
<td>29.0</td>
</tr>
</tbody>
</table>

* No more than one credit toward high school distribution requirements may be earned prior to grade 9 in each of the following areas: math and world language. Credits earned prior to grade 9 will count towards content area distribution, not aggregate graduation requirements.

* With administrative approval, a language arts, social studies, mathematics, or science course may be used to substitute for no more than one world language or one fine and applied arts course. Students are therefore required to complete a minimum five (5) total credits in world language and fine and applied arts. Decisions on substitutions will be made based on the academic needs and abilities of the student.
Students who complete graduation requirements early are eligible to participate in athletics, clubs and activities, or music programs with verification of dual enrollment or participation in senior exploration approved programs. They may also attend class activities, such as the Senior Prom, provided they continue to be in good academic, attendance, and disciplinary standing. These students are approved to participate in commencement exercises in the year in which their cohort graduates.

GRADE POINT AVERAGE
Due to the nature of the school community, students at Strath Haven High School work in a competitive and enriched academic curriculum. Class rank in this context is misleading as an indicator of a student's ability or motivation for college-level academics. Therefore, Strath Haven High School students are not ranked. Grade point averages are computed at the conclusion of grades 9, 10, 11, and 12, and midyear of grade 12.

Grade point averages include all courses that earn at least .5 credits and are calculated using the following values:

\[
\begin{align*}
A+ &= 4.3 \\
B+ &= 3.3 \\
C+ &= 2.3 \\
D+ &= 1.3 \\
F &= 0.0 \\
A &= 4.0 \\
B &= 3.0 \\
C &= 2.0 \\
D &= 1.0 \\
A- &= 3.7 \\
B- &= 2.7 \\
C- &= 1.7 \\
D- &= 0.7
\end{align*}
\]

If a student’s grade point average is greater than 4.00, it is rounded off to 4.00

STUDENT RECORDS
Parents, guardians, and eligible students (18 years of age or attending an institution of post-secondary education) have the right to inspect and review their child's, or their own, student records upon request to the building principal. Copies of the pupil records policy may be obtained from the Office of the Superintendent of Schools.

HOMEWORK POLICY
The faculty and administration of Strath Haven High School believe that homework is a vital part of the process of education. Course work completed outside the classroom not only reinforces skills and knowledge presented at school, but also enriches the student's personal growth in self-discipline and self-confidence. The purpose of education is to lead students to become responsible and capable independent learners. The administration is responsible for establishing and supervising homework insofar as it is a school policy issue. Teachers are in the best position to diagnose the needs of their students and to prescribe homework to meet those needs. Parents have an important role in providing their children with time and an environment conducive to productive schoolwork in the home. Students are responsible for completing their own assignments and for coming to class prepared every day. Specific homework requirements are listed for many of the courses in this Program Planning Guide.
SCHOOL COUNSELING PROGRAM AND SERVICES

INTRODUCTION
Counseling at Strath Haven High School encompasses a number of activities, all of which are designed to help the high school student. In its simplest form, counseling is a service function, dedicated to the students and their lives at the high school, and starts at the time the students are assigned to a counselor. Students are encouraged to keep in close contact with their counselors who will play a key role in their lives at Strath Haven High School. Students in grade nine continue to work with their middle school counselor through the third quarter, when they are assigned a new counselor, who works with them through graduation.

The school counselors serve each student in a variety of ways, but the chief function is to provide support for students in regard to their academic and personal well-being. Counselors assist students in exploring their interests and abilities, in making appropriate choices, and in making post-high school plans. Counselors seek the assistance of parents and teachers in their dealings with students and are available for conferences upon request; they will also arrange student-parent-teacher-counselor conferences. Counselors work closely with students to provide special assistance with career exploration and planning, two and four year college searches, trade and technical school options, internships, and work experiences. Every effort is made to assist students who are planning to enter employment to find satisfactory work consistent with their aptitudes and interests. Counselors also support the administration of national testing programs.

The Counseling Department’s resources include career literature, occupational outlook handbooks, college guidebooks, financial aid and scholarship and directories. School counselors work with individual students to assist with career searches and interest inventories. Scholarship bulletins and summer program information are available to the students through the school website.

The Counseling Department schedules visits by two-year and four-year colleges, military academies, and technical school representatives. Students may explore different professions and careers through the Cooperative Education, Field Career, and Vocational Apprenticeship programs.

MENTAL HEALTH INTERVENTION
Students who are struggling with personal relationships and challenging life situation may be referred for additional support by their school counselor. Services may include:

- individual counseling
- group counseling
- referral to outside counseling
- educational programs
- information and resources

The program functions as a support to existing counseling and pupil services by operating autonomously, yet in cooperation with the school.

SCHOOL PSYCHOLOGIST
Psychological services at Strath Haven High School are provided by a certified school psychologist. The psychologist’s primary responsibilities include assisting with behavioral or social/emotional concerns, psychological and educational assessment, and performing crisis intervention. Referrals are usually made through school counselors or staff, but students may see the psychologist directly if they feel that their needs are urgent. Educational problems referred to the psychologist may require assessment to determine student needs, placement in special education, changes in academic courses, or alternate accommodations within the student’s classes. The psychologist is an integral part of the special education program, and meets with IEP team and parents, formulates educational recommendations, and coordinates with Special Education office staff when a change in placement is indicated. The School Psychologist also coordinates placement in alternative schools and monitors the adjustment of students returning to the district from outside placements.
TESTING PROGRAM

Grade 9
- *Keystone exams as directed by the Pennsylvania Department of Education

Grade 10
- *Practice ACT (part of ACT program)
- PSAT/NMSQT (where applicable)
- *Keystone exams as directed by the Pennsylvania Department of Education

Grade 11
- Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT)
- SAT: Scholastic Assessment Test
- SAT: Subject Area Tests (where applicable)
- American College Test (ACT)
- Advanced Placement Examination (AP) (where applicable; required with class enrollment)
- *Keystone exams as directed by the Pennsylvania Department of Education

All students must meet proficiency standards as outlined by the Department of Education.

Grade 12
- SAT: Scholastic Assessment Test
- SAT: Subject Tests (where applicable)
- American College Test (ACT)
- Advanced Placement Examination (AP) (where applicable; required with class enrollment)
- National Occupational Competency Testing Institute - NOCTI (for students enrolled in Technical School)

Students may be administered other tests mandated by the Pennsylvania Department of Education.

* Required for all students.
NCAA Division I Academic Eligibility Requirements

College-bound student athletes first enrolling at an NCAA Division I school on or after August 1, 2016, need to meet the following academic rules to practice, compete and receive athletics scholarships during their first year.

**Full Qualifier:**
- Graduate from high school
- Complete 16 core courses:
  1. Ten of the 16 courses must be completed before the seventh semester (senior year) of high school
  2. Seven of the 10 core courses must be in English, Math, or Science
- Earn a core-course GPA of at least 2.300
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale

**Academic Redshirt:**
- Graduate from high school
- Complete 16 core courses
- Earn a core-course GPA of at least 2.000
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale

Full Qualifier: College-bound student athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

Example: A college-bound student-athlete completes 16 core courses in the required coursework with a 2.300 core-course GPA and a 79 sum ACT. The college-bound student-athlete is full qualifier under the new sliding scale because the minimum GPA requirement is 2.300 with an ACT sum score of at least 75.

Academic Redshirt: College-bound student-athletes may receive athletic scholarships during their first year of enrollment and may practice during their first regular academic term but may NOT compete during their first year of enrollment.

Example: A college-bound student-athlete completes nine courses prior to the seventh semester of high school. However, that student is an academic redshirt because only nine of the 10 required courses were completed before the seventh semester. That student would be permitted to practice and receive scholarships, provided that the student presents 16 core courses and meets the minimum core-course GPA and test-score requirement at the time of graduation.

Nonqualifier: College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

Example: A college-bound student-athlete completes 15 core courses with a 2.500 core-course GPA and an 820 SAT score (critical reading and math). The college-bound student-athlete is a non-qualifier because only 15 core courses were completed, not the required 16 core courses.
ENGLISH

The Strath Haven English program addresses the essential and sophisticated forms of communication. It expands on the skills and content taught in grades 6-8 and introduces more sophisticated skills and content in its required and elective courses. The program recognizes the varying needs and aspirations of all students and offers 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. Seniors may elect to enroll in AP English Literature and Composition, which will satisfy the fourth year English credit requirement.

Sequence of Required Courses

<table>
<thead>
<tr>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 11: Perspectives in Literature</td>
<td>AP Seminar</td>
<td>English 12: The Will to Meaning in Literature</td>
<td>AP English Literature and Composition</td>
</tr>
</tbody>
</table>

Elective Courses

- AP English Language and Composition: Grades 11-12, 1.0 Credit
- Creative Writing: Grades 10-12, 1.0 Credit
- Media Studies: Grades 9-12, 1.0 Credit
- Public Speaking: Grades 10-12, 1.0 Credit
- AP Research: Grade 12, 1.0 Credit
- World Religions: Grades 11-12, 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 read four core literary works: *Lord of the Flies*, *Romeo and Juliet*, *Of Mice and Men*, and *The Odyssey*. 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. 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. Students read selections from authors such as Hawthorne, Poe, Steinbeck, Fitzgerald, Hurston, Hughes, and many others. Students respond orally and in writing to literature and related sources. Teachers provide instruction in grammar, usage, and mechanics in the context of students’ writing.

In Honors classes, students read several lengthy works. Students write in both expository and creative modes. Teachers present vocabulary development based on words from the literature. Assessment methods vary and include oral, written, multimedia, and group presentations. A high level of academic performance is expected.

In College Preparatory classes, students read several works of major significance. Teachers present vocabulary development based on words from the literature. Skill building is emphasized. 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. An energetic reading program drives this course, allowing students to expand their own perspectives while developing analytic skills.

**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 explanation and understanding of imaginative prose fiction and poetry. Students are exposed to literature from a variety of genres and time periods. Writing, including critical analysis papers, informal exploratory pieces, and creative assignments, is also 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 Victor 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 responsibility of the individual to find meaning in his or her life. This model will be used to evaluate texts from a variety of genres, including the bildungsroman, vignette narrative, dystopian fiction, tragedy, satire, and memoir. Poetry and nonfiction are also integral elements. The primary goal of this course is to broaden and deepen students’ knowledge of literature and to foster the ongoing development of critical thinking and writing skills.

**English 12: Business English (1.0 credit)**

| Grade 12 | 1640 |

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, business letters, emails, and blog 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

#### AP English Language and Composition

**Grades 11-12**  
1402  
1.0 credit

AP English Language and Composition is an elective for students wishing to develop a greater appreciation for the richness and power of language. This course honors 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.

#### 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, doing in-depth research, and so on. Focus will also be on layout of the newspaper, photography, and the impact technology has on journalism. Students will also learn about budgeting, advertising, and public relations in regard to the student newspaper. 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

Prerequisite: Teacher recommendation into AP Seminar / English 11 Honors

AP Seminar/English 11 Honors is a year-long cross-curricular humanities course that empowers students to think critically about complex academic and real-world issues from multiple perspectives. The course emphasizes college-level research skills and focuses on inquiry. The curricula for AP Seminar and English 11 Honors are fully integrated over the course of the year of study.

Students will study and analyze articles from journals and news sources, photo essays, art, documentaries, feature films, philosophy and poetry in addition to the core works of the English 11 Global Studies curriculum. The course is designed to support students in using such texts to define, craft and communicate evidence-based arguments about global issues that appeal to their interests and curiosity.

The course heavily emphasizes the academic writing, research, and presentation skills necessary for successful college completion. Teamwork is an essential component of the curriculum.

The AP Seminar score is calculated over three assessments, according to the weights below.

- Performance Task 1: Team Project and Presentation -- 20%
- Performance Task 2: Individual Research-Based Essay and Presentation -- 35%
- End of Course Exam -- 45%

Students will take the English 11 exam at the end of the course.

This course is the first of two courses which make students eligible for the AP Capstone Diploma.

### AP Capstone: Research

**Grade 12**  
1611  
1.0 credit

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

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.
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 product where applicable) and a presentation with an oral defense.

AP Research is a one-semester course. Students are encouraged to take a course in conjunction with an independent study, internship, or college-level coursework that would further their research.

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.

World Religions

| Grades 11-12 | 2520 | 1.0 credit |

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. 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.
The Social Studies curriculum is designed to prepare students to be informed, responsible citizens who will critically engage the social sciences through the study of ideas and texts in the broader context of their impact upon social environments in order 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.
- 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
- Pan-African Studies: Grades 10-12, 1.0 Credit
US History II: 20th Century (1.0 credit)

| Grade 9 | 2121: Honors | 2142: College Prep |

The United States History program provides the structure for all ninth grade students to learn and experience 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 history component of the course covers events in the period ranging 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, WW1, 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 pertaining to the historical units. Students are expected to write frequently in a variety of styles. Many of these 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 provides the structure for all tenth grade students to learn and experience 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 history component of the course covers events in the period ranging 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 of these require independent thought and research.

Modern World History II (1.0 credit)

| Grade 11 | 2321: Honors | 2342: College Prep |

Modern World History II continues where the 10th grade Modern World I curriculum 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. It gives the student a unique view of the 20th and 21st centuries.

In Honors classes, students are required to do 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.

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

The construction of the course will enable students to operate within a wide range of cognitive abilities. Knowledge will be constructed; systems will be analyzed, compared, contrasted, and evaluated; and alternative solutions will be created. Students will be asked to think critically and to develop their thoughts through the writing process.

As seniors, students enrolled in the course are about to take a giant leap in their lives. As near graduates, they 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 will permeate much of the course content.

**Civics (1.0 credit)**

**Grade 12** 2463

Civics students will explore the origins of the American democratic system while looking at how the constitution embodies the values and purposes set up by the founding fathers. The structure and function of the government will be analyzed on a national, state and local level while showing how each level is interrelated. Throughout the course we will focus on how people play an active role in government and the importance each citizen contributes to society. This course is designed for students who intend to select a post-secondary path that does 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

The primary objective of this course is the study of 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

The primary objective of this course is the study of 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 10-12** 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 will 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 a field trip to the University Museum of Archaeology and Anthropology.

**Introduction to Philosophy** *(1.0 credit)*

**Grades 10-12** 2530

Is the Matrix just a science fiction film or is it a demonstration of postmodern philosophy? What does the comic strip Calvin & Hobbes have to do with English skepticism? Are the Simpsons just a cleverly satiric cartoon or serious cultural criticism? Are there objective truths in the universe or is all morality relative. Is the SUV America’s new national symbol? Do words really mean what we think they mean? Is reality real or just an illusion?

Students will be exposed to critical thinking, the search for answers to life’s mysteries, a challenge to preexisting beliefs about humanity and society.

In this course you 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.

**Pan African Studies** *(1.0 credit)*

**Grades 10-12** 2550
The Pan-African Studies course is designed to provide students with an interdisciplinary study of the African Diaspora with extended focus on the African-American experience. It is the study of the phenomena, events, ideas, and personal ties related to the people of African descent around the world. Beginning on the African continent, students will explore connections and causalities from a historical, geographical, social, political, economic, and cultural contexts in Africa, Eurasia, and the Americas. Students will examine major turning points and influential persons from colonialism to the present day through text, film, and music.
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.
SHMS/SHHS Flow Chart for Mathematics Courses

- SHMS ENRICHED MATH 8
  - ADVANCED ALGEBRA 1 H *
    - GEOMETRY H
      - ADVANCED ALGEBRA 2 WITH TRIG H *
        - PRE-CALCULUS H
          - AP CALCULUS AB
            - AP CALCULUS BC
            - LINEAR ALGEBRA
            - MULTIVARIABLE CALCULUS
        - AP STATISTICS **
          - TRIGONOMETRY AND ANALYSIS CCP
          - APPLICATIONS OF MATHEMATICS
          - TRIGONOMETRY AND ANALYSIS CP
    - GEOMETRY CP
      - FOUNDATIONS OF ALGEBRA 2
      - ALGEBRA 2 CP
        - FOUNDATIONS OF ALGEBRA 1 CP
          - ADVANCED ALGEBRA 1 CP
            - SHMS MATH 8

* 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.
**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 1 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.

**PREREQUISITE:**
Recommendation of the math department based on successful completion of SHMS’s Transitions Math 8 and Below Basic scores on the PSSA in grades 6-8.

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**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 functions, radical functions, 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 1.

**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.

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**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**: CP: Successful completion of Geometry.

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**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. After reviewing linear functions, the students continue to explore quadratics, polynomials, exponential and logarithmic functions, and rational functions.
PREREQUISITE: CP: Recommendation of the math department based on successful completion of SHHS’s Foundations 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: Successful completion of Algebra 2.  
CCP: Teacher recommendation and department approval.

**Applications of Mathematics (1.0 credit)**

3563

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 mathematical models of complex probability situations. The analysis will include conditional probability, combinatorics, and the development of theoretical distributions. 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)**

3621: Honors

This course further develops 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, inverse, composite functions and end behavior of polynomial, rational, radical, trigonometric, absolute value, logarithmic and exponential functions. Additional topics include the study of limits, recursion, and mathematical induction. The course also covers topics necessary for preparation of the SAT II C. The completion of this course is required for the study of advanced placement Calculus.

**PREREQUISITE:** A grade of “B” or better in Advanced Algebra 2/Trigonometry H or department approval.

**Pre-Calculus (1.0 credit)**

3622: College Prep

This course focuses on problem-solving strategies through the use of real world applications. It is a review and extension of linear, quadratic, exponential, and logarithmic functions with stronger attention given to trigonometric and circular functions. The graphing calculator 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.

**PREREQUISITE:** 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.

**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, Pre-Calculus 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:** A grade of ‘B’ or better in Pre-Calculus 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: Advanced Placement

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. At this time there is no AP designation for Linear Algebra. 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.
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**

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Environmental Science → Biology → Chemistry → Physics → AP Physics*

Bioethics
Biotechnology
Anatomy and Physiology
AP Biology
AP Chemistry*
AP Environmental Science

* These courses also have a minimum math prerequisite. See the course description.
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Environmental Science (1.0 credit)

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)

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.

Analytical Chemistry (1.0 credit)

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 problem solving techniques, as well as critical thinking which involves logical and quantitative relationships. Students are provided with many opportunities through laboratory experiences to generate data that provide topics for analysis and discussion.

PREREQUISITE: Successful completion of Biology. Concurrent enrollment in Advanced Algebra 2/Trigonometry H or a grade of “A-” or better in Algebra 2 CP AND demonstration of strong math skills with teacher recommendation.

Chemistry (1.0 credit)

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...
This applications of the topics covered.

**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.

**PREREQUISITE:** Successful completion of Biology.

**Physics (1.0 credit)**

4282: 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.

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

**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.
| COURSE SELECTION | SCIENCE | Return to Contents |

| **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 how 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:** 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 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.

| **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

**PREREQUISITE:** 1.0 credit in Physics Honors AND concurrent enrollment in Advanced Placement Calculus.
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)

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.)
The Partnership for 21st Century Skills has declared that Twenty-First century children will need certain knowledge and skills to succeed as effective citizens, workers and leaders. Mastery of core subjects such as world languages is essential to achieving this goal. In connection with this goal, the World Languages Department provides a program which offers an extended sequence in several languages at a variety of levels. The study of world languages is important for all students at Strath Haven High 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 will concentrate their work in all courses in the following major goal areas and demonstrate proficiency in the following 3 Modes:

- **INTERPRETIVE COMMUNICATION**: Comprehension of written, oral, and/or visual communication, including embedded cultural perspectives, without the ability to negotiate meaning with the creator of the message.
- **PRESENTATIONAL COMMUNICATION**: Spoken or written communication prepared for an audience and rehearsed, revised or edited before presentation.
- **INTERPERSONAL COMMUNICATION**: Two-way oral or written communication which is spontaneous and unrehearsed, and characterized by active negotiation of meaning among individuals involved.

Students can study a world language to expand their linguistic and cultural horizons. The study of world languages is also an effective way to build vocabulary skills, understand grammar, and 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.

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 skill-building activity, both speaking and writing skills must be developed over an extended period of time. In addition, 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.

Students are required to earn three world language credits for graduation. This should be the same language so that advanced-level skills can be developed. 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. Students must earn a minimum grade of “C” to continue to the next course of a language sequence.
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 by earning a B- or better. 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 by earning a B- or better. 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 in 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 by earning a B- or better. 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 the 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 and have received their teacher's recommendation which includes the prerequisite of a B or better in 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. At the end of the course, students earning an A will be recommended for French 2 Honors. All others will continue with French 2CP.

**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)**

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<th>Course</th>
<th>Grade</th>
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<tr>
<td>5331: Honors</td>
<td>Grades 10-12</td>
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<tr>
<td>5332: College Prep</td>
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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)**

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<th>Course</th>
<th>Grade</th>
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<tr>
<td>5341: Honors</td>
<td>Grades 10-12</td>
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<tr>
<td>5342: College Prep</td>
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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*.

**French Seminar H (1.0 credit)**

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<th>Course</th>
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<tr>
<td>5381: Honors</td>
<td>Grades 11-12</td>
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French Seminar Honors is a course designed for students who have completed French 4H or CP and wish to continue their study of French at a level other than AP. Students will continue to develop their language skills through the study of French culture and history, in both film and authentic texts. Possible themes may include: defining French identity in the 21st century, *les Beaux Arts*, World War II France, love and relationships and changing trends in food and health in modern day France. In addition, analysis and discussion of current events in the francophone world, in a weekly *Coin Café*, are an integral part of the course. The French language is used extensively in all activities.

**AP French Language and Culture (1.0 credit)**

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<th>Course</th>
<th>Grade</th>
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<tr>
<td>5371: Advanced Placement</td>
<td>Grades 11-12</td>
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</table>

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)**

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<th>Course</th>
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<tr>
<td>5381: Advanced Placement</td>
<td>Grades 11-12</td>
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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)**

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<th>Course Code</th>
<th>Grade Level</th>
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<tr>
<td>5411</td>
<td>Grades 9-12</td>
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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. At the end of the course, students earning an A will be recommended for German 2 Honors. All others will continue with German 2CP.

**German 2 (1.0 credit)**

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<th>Course Code</th>
<th>Grade Level</th>
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<td>5421: Honors</td>
<td>Grades 9-12</td>
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<td>5422: College Prep</td>
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</table>

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.

**German 3 (1.0 credit)**

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<th>Course Code</th>
<th>Grade Level</th>
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<tr>
<td>5431: Honors</td>
<td>Grades 10-12</td>
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<td>5432: College Prep</td>
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</table>

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)**

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<th>Course Code</th>
<th>Grade Level</th>
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<td>5441: Honors</td>
<td>Grades 10-12</td>
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<td>5442: College Prep</td>
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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.
**German Seminar** (1.0 credit)

5491  Grades 11-12

This course is for students who have completed German 4 H or CP and wish to continue their study of German at a level other than AP. The cultural, political, and social ideas of the times are analyzed and discussed in conjunction with the reading materials which are studied. German films will also support the study of modern German culture. Advanced level vocabulary and grammar study are used in conjunction with the assigned readings. The course is conducted entirely in German.

**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: Honors  Grade 12

This is the highest level German course designed for the student who has completed AP German Language. It emphasizes contemporary German civilization using both classic and contemporary readings and films as the basic text. Advanced level speaking and writing skills are a prerequisite for all students in the course. Students must keep a speaking and writing portfolio and complete a variety of projects, some of which will involve the use of technology. All activities are conducted entirely in German.

**PREREQUISITE:** AP German Language and Culture

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**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

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.

**Spanish 3** (1.0 credit)

5731: Honors  Grades 10-12

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)**

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<th>5741: Honors</th>
<th>Grades 10-12</th>
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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)**

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<tr>
<th>5742: College Prep</th>
<th>Grades 10-12</th>
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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.

**Spanish Seminar (1.0 credit)**

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<th>5761: College Prep</th>
<th>Grades 11-12</th>
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Spanish Seminar is a course designed for students who have completed Spanish 4H or CP and wish to continue their study of Spanish at a level other than AP. In this course, students will continue to develop and practice their skills in speaking, reading, writing, and understanding the language by reading and discussing the Spanish topics of cultural and historical nature. Spanish-language films will also support the study of culture and history. The emphasis is on cultural knowledge and understanding.

**AP Spanish Language and Culture (1.0 credit)**

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<tr>
<th>5771: Advanced Placement</th>
<th>Grades 11-12</th>
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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:** A grade of “B” or better in Spanish 4 Honors

**AP Spanish Literature and Culture (1.0 credit)**

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<tr>
<th>5781: Advanced Placement</th>
<th>Grade 12</th>
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</table>

This is the highest level Spanish course designed for the student who has completed Spanish 4H or AP Spanish Language and Culture. 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:** A grade of “B” or better in Spanish 4 Honors
Visual and Performing Arts

The following programs are included in the Visual and Performing Arts Department:

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

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, and Graphic Design 1, Digital Photography, and Visual Communications. 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, and 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 Portfolio Preparation, Ceramics 3, and Graphic Design 3, 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: Portfolio Preparation, 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 SHHS 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 work 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.**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>2D Art Emphasis</th>
<th>Ceramics Emphasis</th>
<th>Graphic Design Emphasis</th>
<th>Photography Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Art 1</td>
<td>Ceramics 1</td>
<td>Graphic Design 1</td>
<td>Digital Photography 1 OR Visual Communications</td>
</tr>
</tbody>
</table>

**NOTE:** A student may take an introductory level class at any grade level, 9-12.

<table>
<thead>
<tr>
<th>Year 2</th>
<th>2D Art Emphasis</th>
<th>Ceramics Emphasis</th>
<th>Graphic Design Emphasis</th>
<th>Photography Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Art 2 and/or Graphic Design 1, Ceramics 1, Digital Photography 1, or Visual Communications</td>
<td>Ceramics 2 and/or Art 1, Graphic Design 1, Digital Photography 1, or Visual Communications</td>
<td>Graphic Design 2 and/or Art 1, Ceramics 1, Digital Photography 1, or Visual Communications</td>
<td>Digital Photography 2 OR Video &amp; Broadcast Production and/or Art 1, Ceramics 1, Digital Photography 1, Graphic Design 1, or Visual Communications</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3</th>
<th>2D Art Emphasis</th>
<th>Ceramics Emphasis</th>
<th>Graphic Design Emphasis</th>
<th>Photography Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Art 3 and/or Graphic Design 2, Ceramics 2, Digital Photography 2</td>
<td>Ceramics 3 and/or Art 2, Graphic Design 2, Digital Photography 2</td>
<td>Graphic Design 3 and/or Art 2/Art 3, Ceramics 2, Digital Photography 2</td>
<td>Digital Photography 2 OR Video &amp; Broadcast Production and/or Art 1, Ceramics 1, Digital Photography 1, Graphic Design 1, or Visual Communication</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>2D Art Emphasis</th>
<th>Ceramics Emphasis</th>
<th>Graphic Design Emphasis</th>
<th>Photography Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AP Art &amp; Design—2D</td>
<td>AP Art &amp; Design—3D</td>
<td>AP Art &amp; Design—2D and/or Graphic Design 4</td>
<td>AP Art &amp; Design—2D</td>
</tr>
</tbody>
</table>

**MATERIALS AND SUPPLIES**

In all art courses, basic materials, supplies, and equipment are provided by the art department. A lab fee is required for certain art courses to defray the cost of consumable art materials. Students are provided with student-grade materials which are shared. Some art courses require the purchase of specific materials such as computer photo paper, a sketchbook, a flash drive, a sponge, etc. Any student with financial concerns regarding these items should speak directly with the art teacher of that course.
**INTRODUCTORY ART COURSES**

**Art 1 (1.0 credit)**

<table>
<thead>
<tr>
<th>6010</th>
<th>Grades 9-12</th>
</tr>
</thead>
</table>

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.

**REQUIRED LAB FEE:** $25.00

**Ceramics 1 (1.0 credit)**

<table>
<thead>
<tr>
<th>6030</th>
<th>Grades 9-12</th>
</tr>
</thead>
</table>

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.

**REQUIRED LAB FEE:** $25.00

**Graphic Design 1 (1.0 credit)**

<table>
<thead>
<tr>
<th>6040</th>
<th>Grades 9-12</th>
</tr>
</thead>
</table>

Create digital art and graphics with Adobe Photoshop and Illustrator. This entry level course will teach you the menus and toolbars as you create movie packages, posters and advertisements along with expressing yourself with digital art. This course is the prerequisite for all other Graphic Design courses.

**REQUIRED LAB FEE:** $25.00

**Visual Communications (1.0 credit)**

<table>
<thead>
<tr>
<th>6180</th>
<th>Grades 9-12</th>
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</thead>
</table>

The Visual Communications course is designed to provide basic instruction in the production of photography and video, as well as 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 film production, including storyboarding, capturing film, 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. This course is a prerequisite for Digital Photography 2 and Video and Broadcast Production.

**REQUIRED LAB FEE:** $25.00

**Digital Photography 1 (1.0 credit)**

<table>
<thead>
<tr>
<th>6200</th>
<th>Grades 9-12</th>
</tr>
</thead>
</table>

Designed to explore the visual and technical aspects of digital photography, as well as aesthetics and context of this contemporary medium. The curriculum includes camera operation, lighting, elements and principles of design, composition and layout. Students learn to organize, manage, edit, manipulate and prepare photos for print and digital communication. Software includes the Adobe Creative Suite with an emphasis on Photoshop. This course is a prerequisite for Digital Photography 2 and Video and Broadcast Production.

**REQUIRED LAB FEE:** $25.00
### Digital Photography 2 (1.0 credit)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>6220</td>
<td>10-12</td>
</tr>
</tbody>
</table>

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. Access to a personal digital camera is highly recommended.

**PREREQUISITE:** Visual Communications or Digital Photography 1  
**REQUIRED LAB FEE:** $25.00

### Video and Broadcast Production (1.0 credit)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>6190</td>
<td>10-12</td>
</tr>
</tbody>
</table>

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:** Visual Communications or Digital Photography 1  
**REQUIRED LAB FEE:** $35.00

### Art 2 (1.0 credit)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>6050</td>
<td>10-12</td>
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</table>

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 1  
**REQUIRED LAB FEE:** $35.00

### Ceramics 2 (1.0 credit)

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<thead>
<tr>
<th>Course Code</th>
<th>Grades</th>
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<tbody>
<tr>
<td>6060</td>
<td>10-12</td>
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</table>

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  
**REQUIRED LAB FEE:** $35.00

### Graphic Design 2 (1.0 credit)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>6080</td>
<td>10-12</td>
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</tbody>
</table>

This is an advanced course using Adobe Photoshop and Illustrator and the introduction of InDesign. The option of using tablets will be introduced for drawing as student’s design concert and travel posters, magazine layouts, three-dimensional package designs, book design and digital art as well as student proposed projects.

**PREREQUISITE:** Graphic Design 1
## ADVANCED/PORTFOLIO ART COURSES

### Art 3: Portfolio Preparation (1.0 credit)

<table>
<thead>
<tr>
<th>Code</th>
<th>Grade Range</th>
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</thead>
<tbody>
<tr>
<td>6100</td>
<td>Grades 11-12</td>
</tr>
</tbody>
</table>

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

**REQUIRED LAB FEE:** $35.00

### Ceramics 3 (1.0 credit)

<table>
<thead>
<tr>
<th>Code</th>
<th>Grade Range</th>
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<tbody>
<tr>
<td>6070</td>
<td>Grades 11-12</td>
</tr>
</tbody>
</table>

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.

**REQUIRED LAB FEE:** $50.00

### Graphic Design 3 (1.0 credit)

<table>
<thead>
<tr>
<th>Code</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>6110</td>
<td>Grades 11-12</td>
</tr>
</tbody>
</table>

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, logo design, business identity, and the use of typography. 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)

<table>
<thead>
<tr>
<th>Code</th>
<th>Grade Range</th>
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</thead>
<tbody>
<tr>
<td>6170</td>
<td>Grades 11-12</td>
</tr>
</tbody>
</table>

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 on 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** (2.0 credit)
**AP Art & Design 3D**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6120: 2D</td>
<td>Grade 12</td>
<td>AP Art &amp; Design 2D</td>
</tr>
<tr>
<td>6130: 3D</td>
<td>Grade 12</td>
<td>AP Art &amp; Design 3D</td>
</tr>
</tbody>
</table>

**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 or Drawing: Art 1, Art 2, Art 3
- AP Art & Design-2D Design: Graphic Design 1, Graphic Design 2, Graphic Design 3
- AP Art & Design-3D: Ceramics 1, Ceramics 2, Ceramics 3

**REQUIRED LAB FEE:** $50.00

MUSIC COURSES

**Instrumental Music** (1.0 credit)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7400</td>
<td>Grades 9-12</td>
<td>Instrumental Music</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7410</td>
<td>Grades 10-12</td>
<td>Advanced Instrumental Music</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7510</td>
<td>Grades 9-12</td>
<td>Vocal Music</td>
</tr>
</tbody>
</table>

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 as 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

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**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, Writing Music I, 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.

---

**Music Through American History and Social Change** (1.0 credit)

7470 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 2019, 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, African American 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 it’s 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. There is no prior music knowledge required.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Grades</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7490</td>
<td>Grades 9-12</td>
<td>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 present research on the film and the use of popular music. This is intended for all students that are interested in film and music. There is no prior music knowledge required.</td>
</tr>
</tbody>
</table>

**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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grades</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7425: Fall</td>
<td>Grades 9-12</td>
<td>Scheduled Period 5</td>
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</tbody>
</table>

**Symphonic Band (0.5 credit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grades</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7465: Winter and Spring</td>
<td>Grades 9-12</td>
<td>Scheduled Period 5</td>
</tr>
</tbody>
</table>

**Jazz/Modern Band (0.25 credit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grades</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7285: Winter and Spring</td>
<td>Grades 9-12</td>
<td>Rehearsal one night per week</td>
</tr>
</tbody>
</table>

**Orchestra (0.25 credit)**

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<tr>
<th>Course</th>
<th>Grades</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>7305</td>
<td>Grades 9-12</td>
<td>Scheduled Period 5</td>
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</tbody>
</table>

**Camerata (0.75 credit)**

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<tr>
<th>Course</th>
<th>Grades</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>7320</td>
<td>Grades 9-12</td>
<td>Scheduled Period 5</td>
</tr>
</tbody>
</table>
**Drama**

**Theater Workshop (1.0 credit)**
7060 Grades 9-12

This performance-based course is an exploration of all facets of theatre. From technical design to directing to acting. Each theatrical component will be explored through performance. The class will choose the theatre 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.

**Other Music Credit**

**Private Study (0.5 credit)**
7625 Grades 9-12

A student may receive one-half credit each year for a weekly lesson with a private teacher. To receive credit, a student must (1) be enrolled in advanced study on an instrument; (2) audition for the music department at the beginning of the year; (3) bring a statement at the end of each marking period indicating regularity of attendance and preparation for lessons and compositions studied; (4) and be willing to share his/her talents with the rest of the student body by participating in a school performing group. Students do not earn a grade for Private Study.

**Delaware County Youth Orchestra (0.5 credit)**
7645 Grades 9-12

To receive credit for performing in the Delaware County Youth Orchestra, students must participate in the Strath Haven High School Orchestra and present a validated attendance slip from the Youth Orchestra director to the Strath Haven High School instrumental music teacher. Students do not earn a grade for Delaware County Youth Orchestra.
**Business, Engineering, and Technology Department**

Business credits count as elective credits. All other credits in the department count as Fine and Applied Arts credits. 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, the student must have successfully completed two credits in that area of study and have approval from the Principal.

**TECHNOLOGY and ENGINEERING — All courses count as 1 Fine and Applied Arts credit.**

### Communication Systems

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>6530</td>
<td>Computer Animation</td>
<td>1.0</td>
</tr>
<tr>
<td>6540</td>
<td>Computer-Aided Drafting and Design (CADD) 1</td>
<td>1.0</td>
</tr>
<tr>
<td>6550</td>
<td>Computer-Aided Drafting and Design (CADD) 2</td>
<td>1.0</td>
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### Transportation Systems (Auto and Power)

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<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>6620</td>
<td>Auto Lab</td>
<td>1.0</td>
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<tr>
<td>6630</td>
<td>Advanced Auto Lab</td>
<td>1.0</td>
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### Manufacturing/Construction Systems

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<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>6650</td>
<td>Wood I</td>
<td>1.0</td>
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<tr>
<td>6660</td>
<td>Wood II</td>
<td>1.0</td>
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<tr>
<td>6670</td>
<td>Wood III</td>
<td>1.0</td>
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### Other Technologies

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<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>6730</td>
<td>Robotics</td>
<td>1.0</td>
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**COMMUNICATION SYSTEMS**

**Computer Animation (1.0 credit)**

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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>6530</td>
<td>Grades 9-12</td>
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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 II: Computer-Aided Drafting and Design (1.0 credit)**

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<tr>
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<tbody>
<tr>
<td>6550</td>
<td>Grades 9-12</td>
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</table>

CADD 2 expands the students’ knowledge in today’s drafting and design techniques in 2D work and 3D modeling, and exposes students to additional software, such as AutoDesk Land (civil engineering software) and Viz Render (rendering software for architectural CAD). Students will spend the majority of class time refining their computer drafting skills as they work on various individual and group projects. Students enrolled in CADD II are eligible to earn college credit through a Dual Enrollment agreement with Delaware County Community College.
### AUTOMOTIVE SYSTEMS

**Auto Lab (1.0 credit)**

6620  Grades 10-12

This course is designed to provide students with an understanding of concepts and principles in automotive technology. Using a competency-based program, students master a variety of tasks in a lab setting. These tasks include all major automotive areas: brakes, tune-ups, emission controls, electronics, etc.

**Advanced Auto Lab (1.0 credit)**

6630  Grades 10-12

This course continues problem-solving and hands-on technical auto training that involves areas of major automotive systems. Additionally, systems diagnosis, computer scanning, and automotive restoration are included. **Students may take the class multiple times, with increasing levels of difficulty.**

**PREREQUISITE:** A grade of “B” or better in Auto Lab and teacher 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.

**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.

**Wood Tech 2 (1.0 credit)**

6660  Grades 9-12

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 9-12

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.
**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.

**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. An integral part of this course will be devoted to the manipulation of input/output devices. Students will also learn how to manipulate 3-D objects, how to use a 3-D camera, and how to manipulate lights in a computer game environment. In short, students will be able to make your own full-fledged computer games, resplendent with sound, 3-D graphics, collision detection, and networking capability.

**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.

**AP Computer Science A** (1.0 credit)

6342
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. The course will include WE.org Service, an AP College Board Pilot Program. 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.

**Intro to Computer Science through App Development and Game Design** (1.0 credit)

6310
Grades 9-12

This course will introduce students to the fundamentals of computer science, with a focus on basic programming control structures. Students will use JavaScript to create mobile web apps using Code Studio, will work with a Circuit Playground in a Physical Computing unit, and then will progress to Unity3d to create their own games. As a culminating project, students will create a large app, game, or physical computational artifact using JavaScript.
Microsoft Office Certification (1.0 credit)

6382 Grades 9-12

Students will learn the skills needed to maximize their Microsoft Office skills. This self-paced course offers students the opportunity to earn Core MOS certifications in Word, Excel, and PowerPoint.

BUSINESS
ALL COURSES COUNT AS ONE ELECTIVE CREDIT

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, saving, 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.
Family and Consumer Sciences

The Family and Consumer Sciences Department includes the following programs:

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

All courses in this department will be credited toward the Fine and Applied Arts graduation requirements.

| Exploring Childhood (1.0 credit) | Advanced Childhood (1.0 credit) |
|--------------------------------||---------------------------------|
| 7700                              | 8020                           |
| Grades 10-12                      | 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.

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.

**PREREQUISITE:** B or better in Exploring Childhood
CLOTHING CONSTRUCTION

All courses in this department will be credited toward the Fine and Applied Arts graduation requirements.

**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. Projects include the deconstruction and redesign of an existing garment, as well as, learning to follow a paper pattern. Students will experience a field trip to the famed Fabric Row in Philadelphia.

**REQUIRED LAB FEE: $30.00**

**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. In addition to returning to fabric Row, Advanced students will mentor students in the Intro class.

**REQUIRED LAB FEE: $30.00**

**PREREQUISITE:** B or better in Clothing and Design.

INTERIOR ARCHITECTURE

All courses in this department will be credited toward the Fine and Applied Arts graduation requirements.

**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 2nd half of the course, giving them an opportunity to bring their knowledge and imagination full circle. Instruction includes guest speakers from the Interior Design and Architecture Programs at RISD, Drexel University and other notable schools, and a field trip to the Design Center at East Market in Philadelphia. This course is highly recommended for students interested in Architecture, Interior Design, Landscape Design and related fields.

**REQUIRED LAB FEE: $30.00**

**Advanced Interior Architecture (1.0 credit)**

7880 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. Projects include the deconstruction and redesign of an existing garment, as well as, learning to follow a paper pattern. Students will experience a field trip to the famed Fabric Row in Philadelphia.

**PREREQUISITE:** B or better in Interior Architecture.
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.

**Required $75.00 lab fee** (to defray the cost of food supplies) StudentS may address any financial concerns with their guidance counselor.

**Essentials of Cooking** (1.0 credit)

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<td>7810</td>
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Essentials of Cooking prepares students to work confidently in the kitchen as they complete basic recipes. In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. Students will work collaboratively to put into practice what they are learning. This course covers a variety of basic food preparation techniques and life skills. At the completion of this course, students will be able to plan, prepare and execute recipes.

**Culinary Arts** (1.0 credit)

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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)

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<td>Grades 9-12</td>
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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.

**Baking and Pastry Arts** (1.0 credit)

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<td>Grades 10-12</td>
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This comprehensive culinary course will focus on Baking & Pastry Arts. Students develop skills in basic ingredients function, baking/pastry vocabulary, and mixing techniques to produce baking/pastry products. Students will participate in 1 and 2 day labs to develop skills in basic bread and pastry techniques to produce breads, muffins, biscuits, pies, cakes, pastries, and specialized desserts. Nutritional contributions of foods are examined and evaluated. Attention to detail and careers in the Pastry Arts field will also be examined.
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

<table>
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<tr>
<th>Health and Physical Education 1 (1.0 credit)</th>
<th>Health and Physical Education 2 (1.0 credit)</th>
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<tbody>
<tr>
<td>9770 Grade 9</td>
<td>9780 Grade 10</td>
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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, drugs, and in introduction to human sexuality. 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.

ELECTIVE COURSES

<table>
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<tr>
<th>Lifeguard Training, Fitness, and Sport (1.0 credit)</th>
<th>Principles of Team Sports and Extreme Games (1.0 credit)</th>
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<tr>
<td>9855 Grades 9-12</td>
<td>9810 Grades 10-12</td>
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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.

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)

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.
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

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

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

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 1 (1.0 credit)
3620
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 2 (1.0 credit)
3530
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 multiter, 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)
9110-9120
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.
English as a Second Language (1.0 credit)

5810 Grades 9-12

This course is designed for students whose native language is not English and who have had little previous experience with spoken or written English. It focuses on the development and refinement of basic communication skills. Students develop and refine these skills, both as life skills and as they relate to the other courses which they are studying. Individual academic and personal needs are provided for in this course, which may be taken more than one time. Either English, foreign language, or general credit may be awarded for its successful completion.

STUDIES AT OTHER EDUCATIONAL INSTITUTIONS

Students considering taking a course elsewhere need to discuss the plan with their counselor. Together, they need to examine graduation requirements and determine whether the course will fit within the student's schedule at Strath Haven. Depending on the level of instruction and the number of hours involved, Strath Haven may award credit for the course and list it on the student’s transcript. The student is responsible for tuition and transportation, and is expected to report to the course location each day during the designated time, regardless of whether the course meets on a particular day. Courses approved at other educational institutions may not replace a required Strath Haven course.

DUAL ENROLLMENT

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, and be in good disciplinary standing. Full details regarding qualifications for each program may be obtained by contacting your school counselor. Students who participate in these programs receive both high school and college credit.

COLLEGE COURSES OTHER THAN DUAL ENROLLMENT

Students who meet requirements established by post-secondary schools other than Delaware County Community College for enrollment during high school may be considered for such programs. However, the student is responsible for tuition and transportation, and must follow enrollment procedures, which may be reviewed with the student’s counselor during the pre-registration period for the high school.

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.

OTHER ACCREDITED COURSES

Any course which is not a repeat of work already taken at Strath Haven High School, and which the student wishes to apply toward graduation, must be pre approved, in writing, by the administration, department chair, and school counselor. Notification of the student's participation and grade must be sent by the institution to Strath Haven High School before credit is granted or listed on the student transcript.

STUDY ABROAD

Students who intend to study abroad prior to graduation must seek administrative approval prior to enrolling in any program. Strath Haven High School reserves the right to determine credit status and grading policy in advance for any course of study taken abroad.
SENIOR EXPLORATION

1. A senior must register for a minimum of eight (8) credits to be considered a full-time student.
2. A senior who has remained on track to meet all graduation requirements by completing 23 credits in all needed distribution areas by August 15th following the junior year will be eligible to participate in the senior exploration.
3. If granted by administration, senior exploration allows a senior the opportunity to register for a total of three blocks in both the fall and spring semesters of senior year, or two blocks one semester and four in the other semester.
4. Senior exploration time may be used to enroll in a field career, engage in independent study, participate in a co-op, enroll in a dual enrollment course at an approved college or university, or enroll in an approved online course. It may also be used to work on post-secondary planning, engage in service learning projects, or to explore a personal hobby or interest through a non-accredited program of study.
5. Students who are on senior exploration are not permitted to remain on campus unsupervised during the given open block. If transportation cannot be arranged, the student may identify a classroom or supervised space, with teacher permission.
6. School administration reserves the right to rescind senior exploration if necessary, and parents have the right to rescind permission at any time.

Students may be granted senior exploration if they meet the following requirements for the duration of their senior year:

- The student must have completed 23 credits and be on track to graduate on time at the conclusion of the fourth year of high school no later than August 15th following his or her junior year.
- Students must demonstrate proficiency on all required Keystone end-of-course exams prior to being considered for senior exploration.
- Students participating in senior exploration are responsible for their own transportation to and from school.
- The student must submit a completed Senior Exploration application form with a parent signature prior to receiving administrative permission to participate in senior exploration.

Student schedules will not be altered to accommodate Senior Exploration; for example, a schedule will not be altered to open a particular block of the school day.

FIELD CAREER

Grade 11 and 12
9260: One Semester 1.0 Credit
9270: Full Year 2.0 Credits

This 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 field, the work demands, and the rewards. Students are required to spend a minimum of 10 hours a week in their field career experience. Weekly time logs are required for documentation of hours. Students and their families may need to help arrange the placement. Transportation and any other expenses are the student’s responsibility. Students must meet with the Career Center Coordinator during the application process, and will be supervised by the Career Center Coordinator and Guidance Counselor to receive credit.

*Must be approved by the Career Center Coordinator and Administration.

COOPERATIVE EDUCATION

Grades 11-12
9210: One Semester 1.0 Credit
9220: Full Year 2.0 Credits

This is an opportunity to earn both money and graduation credit. The purpose of the program is to have students learn about the working world on both a practical and theoretical level. Students are expected to work on the job Monday through Friday for a minimum of 10 hours. Pay stubs are required for documentation of hours. Students must be at least 16 years old to participate and must obtain working papers. Students are expected to have the job placement arranged prior to the start of the school year. Transportation and any other expenses are the student’s responsibility. Students must meet with the Career Center Coordinator during the application process, and will be supervised by the Career Center Coordinator and Guidance Counselor to receive credit.

*Must be approved by the Career Center Coordinator and Administration.
Career and technical education programs are offered to students by the 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 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.

CONSTRUCTION TECHNOLOGY
- Building Trades
- Carpentry
- Electrical Construction Technology
- Heating, Ventilation and Air Conditioning (HVAC)/Plumbing
- Welding (Starting in Fall 2019)

HOSPITALITY, TOURISM AND HUMAN SERVICES
- Cosmetology
- Culinary Arts and Food Service Management
- Culinary Arts and Hospitality
- Early Childhood Education

HEALTH AND BIOISCIENCE
- Biomedical Technology and Laboratory Sciences
- Dental Technology
- Emergency and Protective Services
- Nurse/Medical Assistant (Health Sciences)
- Exercise Therapy and Sports Science

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

ENGINEERING AND COMPUTER SCIENCE
- Advertising, Design and Commercial Art
- Apple Systems and Design
- Computer Networking and Digital Forensics
- Engineering and Robotics

Medical Careers
9190: Honors 2.0 Credits
Grade 12

This one-year program is designed for students 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. Interested juniors should discuss this option with their school counselor, who can provide information about the spring information session. 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. Students are encouraged to visit the website at www.dciu.org/dc.