SKYLINE HIGH SCHOOL

STEM • VPA

2017 - 2018

Course Descriptions

600 E. Mountain View Ave.
Longmont, CO 80504

Table of Contents

General Class Information Requirements And Procedures 3
Honors Certification Program 4
Advanced Placement 5
Concurrent Enrollment Options For High School Students 6
Welcome To The Home Of Skyline High School Stem And Vpa Focus Academies 8
Skyline High School Stem Academy 9
Stem Academy Education Plan 10
Stem Flowchart Of Courses 11
Stem Course Descriptions 12
Skyline High School Visual & Performing Arts Academy 13
Vpa Flowchart Of Courses 14
Art 15
Business 19
Computer Science 19
Drama Flowchart Of Courses 21
Drama 21
Family And Consumer Sciences Flowchart Of Courses 22
Language Arts Flowchart Of Courses 23
Language Arts 23
Language Arts Front Range Community College Courses 26
Mathematics Flowchart Of Courses 27
Mathematics 27
Application Electives 30
Music 30
Physical Education Flowchart Of Courses 34
Physical Education 34
Science 37
Social Studies 40
Stage Technology 42
World Language 43
Font Range Community College Course Descriptions 46

GENERAL CLASS INFORMATION REQUIREMENTS AND PROCEDURES

Letter Grades:

All courses receiving a letter grade will be used in computing a student's grade point average (GPA). Courses awarding Pass/Fail are the only exception and are not calculated in the GPA.

Grade Point Average:

The grading scale includes A, B, C, D, and F letter grades. The following point average will be used to compute grade point averages: A = 4 points; B = 3 points; C = 2 points; D = 1 point; F = 0 points.

Honors courses will be weighted as follows:

A = 4.5; B = 3.5; C=2.5; D=1.5; F = 0 The only classes to be weighted for this school year are Honors English 9, Honors English 10, Honors Biology, Honors World Geography/History, Honors U. S. History and Honors Chemistry. For weighted credit, honors must be taken in the 9th or 10th grade.

Advanced Placement (AP) Courses:

Skyline High School participates in the College Board's National Advanced Placement (AP) program. Upon completion of an AP course, a student may choose to take the AP Examination in May. A student's score on the examination may grant credit and/or placement in a higher-level course upon entry in a college/university. The cost of the examination is the student's responsibility. Some scholarships based on need are available.

Advanced Placement courses will be weighted as follows:

A = 5.0; B = 4.0; C = 3.0; D = 2.0; F = 0. Depending on enrollment requests each year, the following AP courses are offered at SHS: AP Biology, AP Calculus, AP Chemistry, AP Computer Science, AP Economics, AP English Literature and Composition, AP Language and Composition, AP Government and Politics, AP Music Theory, AP Physics, AP Physics Calc– Based, AP World History, AP Spanish, AP Statistics, AP Studio Art, AP U.S. History.

Waiver of Fees: Students requiring financial assistance and/or who are eligible for free and reduced lunch (under federal guidelines) can request a waiver or scholarship through school administration. Extreme hardship situations may be considered by the principal.

Independent Study Options:

Students wanting to take Independent Study will require the approval of an instructor, counselor, and building principal. In order to earn credit in a course taken through the independent study option, a student must be under the supervision of a teacher. The student must have successfully completed a minimum of 75 hours (as verified by the instructor) of class work for .50 credit, or have completed a minimum of 150 hours for 1.0 credit. An Independent Study Application, available in the counseling office, must be completed, with all required signatures, prior to the start of the term in which the student plans to take a course via independent study.

Aide Positions (10, 11, 12):

Student aides will be graded on a pass/fail basis. Students may receive an aide credit for no more than one class per term, and all student aides must receive administrative approval by completing the appropriate paperwork. Students will receive .25 credits per term for being a student aide. The minimum GPA requirement is a 2.50.

Grades of Incomplete ("I"):

If a student has a justifiable reason for not being able to complete the requirements for credit in a particular course, and has received approval from the class instructor, he/she may receive an "Incomplete" for a grade for that course for that term and receive no credit The requirements to change that "Incomplete" to a letter grade and receive credit must be made up no later than the ten (10) days after the completion of the semester. If the "Incomplete" is not made up, it will be changed to a grade of "F".

Honors Certification Program

Skyline High School believes in encouraging and supporting students in their endeavors to become excellent learners and leaders of our high school and in our community at large. It is our hope that students will take advantage of opportunities during their high school years that will foster the development of academic excellence, leadership skills, and civic responsibility.

Skyline High School has designed the Honors Certification Program to provide a challenging opportunity for those dedicated and talented students who wish to excel in academic achievement, participation in extracurricular activities, and participation in community service activities.

Honors Certification candidates are required to complete a rigorous program of study consisting of core courses and electives througout their high school years. In addition, candidates will be expected to participate in extracurricular activities and fulfill 60 hours of community service.

These students will be recognized at graduation with an Honors Certificate by fulfilling the following requirements:

- 28 Credits required to graduate
- 4 Credits of AP* and/or Front Range Community College Courses
- 3 Credits of Honors Courses**
- 3.25 (unweighted) GPA or higher
- 1 School-sponsored extracurricular activity each year
- 60 Hours of Community Service

*AP Courses will be weighted on a 5.0 scale.
**Honors Courses, 9-10, will be weighted on a 4.5 scale.
**Honors Courses, 11-12, will be calculated on a 4.0 scale (not weighted).

If you intend to pursue the Honors Certificate, please contact your counselor

Advanced Placement

The College Board's Advanced Placement Program (AP) enables students to pursue college-level studies while still in high school. Based on their performance on rigorous AP examinations, students can earn credit, advanced placement, or both, for college. Most U.S. colleges and universities, and colleges and universities in 21 countries, have an AP policy granting incoming students' credit, placement, or both, for qualifying AP examination grades.

Why Take AP Courses?
The Advanced Placement Program is best known for giving high school students the opportunity to earn college credit, to save on college tuition, and even to graduate early from college. But AP offers students many additional benefits as well.

- AP allows high school students to take courses that are challenging, rigorous, and in-depth—exactly the kinds of courses they will face once in college.
- AP courses are weighted and can positively impact GPA.
- The credits students earn for their AP achievements enable many students to pursue a double major, to study or travel abroad, or to undertake a combined bachelor's and master's program.
- Students who participate in AP are ultimately given the responsibility to reason, analyze, and understand for themselves, essential skills to help students succeed in college.

The AP Exam
Each May, students who take AP courses have the opportunity to take the equivalent AP exam for their subject area(s). The AP exam grade is a weighted combination of the student's score on the multiple-choice section and on the free-response section. The final grade is weighted on a 5-point scale. Students who earn AP exam grades of 3 or above are generally considered to be qualified to receive college credit and/or placement into advanced courses; however, each college or university determines the awarding of credit and placement. It is the student's responsibility to check with individual institutions regarding their individual policies.

AP Scholar Awards
The AP Program recognizes high school students who have demonstrated outstanding college-level achievement through AP courses and exams with the AP Scholar Awards.

- AP Scholar: Granted to students who receive scores of 3 or higher on three or more AP Exams.
- AP Scholar with Honor: Granted to students who receive an average score of at least 3.25 on all AP Exams taken, **and** scores of 3 or higher on four or more of these exams.
- AP Scholar with Distinction: Granted to students who receive an average score of at least 3.5 on all AP Exams taken, **and** scores of 3 or higher on five or more of these exams.

AP Courses offered at Skyline High School: (See Course Descriptions in individual department sections)

ART DEPT:
AP Studio Art Drawing
AP Studio Art 2D Design
AP Studio Art 3D Design

COMPUTER SCIENCE DEPT:
AP Computer Science

ENGLISH DEPT:
AP Lang. & Comp.
AP Lit. & Comp.

MATH DEPT:
AP Calculus
AP Statistics

SCIENCE DEPT:
AP Biology
AP Chemistry
AP Physic –Algebra based
AP Physics–Calc-Based

SOCIAL STUDIES DEPT:
AP Economics
AP Human Geography
AP US Government & Politics
AP US History
AP World History

WORLD LANGUAGES DEPT:
AP French
AP Italian
AP Spanish

*Program enrollment will determine which courses can be offered.

Concurrent Enrollment Options for High School Students

The Concurrent Enrollment provides an opportunity for juniors and seniors to earn both high school and college credit for a college course. The school district will pay for up to two courses per semester (not including summer school, evening or weekend coures). This is available only to 11th and 12th grade students who have completed a minimum of 11.5 credits toward graduation and are under 20 years of age. Courses taken in this manner count toward the eligibility requirements as set forth by the Colorado High School Activities Association (CHSAA). The courses must be pre-approved and successfully completed. This program is designed to enrich a student's educational experience by providing curricular options beyond what is offered at the high school. Concurrent enrollment is not intended to duplicate opportunities that are available through course work offered at SHS. Students interested in this opportunity should see their counselor for more information. There are specific deadlines that must be adhered to in order to be reimbursed for coursework. Students must pass the class, or will be required to pay the cost of the course. Front Range courses will NOT be weighted.

FRONT RANGE COMMUNITY COLLEGE (FRCC)

FRCC has a unique partnership with Skyline High School that allows juniors and senior SHS students to take "Guaranteed Transfer" (GT) college classes on the Skyline campus. Students can earn up to one year of college credit. Courses are taught by FRCC profesors and are one semester in length. Some of the courses taught on campus include: Communication 115 (Public Speaking), Criminal Justice 110 (Intro to Criminal Justice), English 121 (Composition I), English 122 (Composition II), Literature 115 (Introduction to Literature), Psych. 101 (General Psychology), Psychology 102 (General Psychology). COM 115 and CRJ 110 are not guaranteed transfer credit. FRCC courses are not weighted.

60/60 Program

A Bachelor's Degree (4 Year College Degree) is 120 Credits.

For students who do not meet college index scores,
the 60/60 Program is ideal.
Here's how it works:

College	Degree	Credits Earned
Community College	Associates of Arts Or Associates of Science	60
4 Year College or University	Bachelors Degree of Arts of Science	60
You're Done	Congratulations!	120

How College Credits Work:

Colleges run by Semesters:
Fall Semester: August – December
Spring Semester: January – May
Students can enroll in Community College and take 1-6 classes. Students do not have to be enrolled in a program to take classes.
If you are interested in art, try an art class and see if college is for you.
The average College Class awards ***3.0 credits per course.***
Full-Time students *who do not work* take 5 classes per semester and earn 15 credits per semester.
15 credits/semester = 30 credits/year = 120 credits/4 yrs.
The 60/60 Program is set up for students to spend 2-3 years at a Community College and 2-3 years at 4 Yr. College or University.

College Entrance Exams

Community College: ACT or SAT
College or University: ACT or SAT

Work Study

Many high school students need the experience of working before leaving high school. This experience can be unrelated to vocational programs or career training; students need to accomplish this experience within the curriculum.

The easiest and most effective way of handling this is to give high school students credit for work experience. Since this work experience is extremely valuable to some students whose families are encountering economic difficulties, or for those students who are considering dropping out of school, it appears that there is a need for a work study program.

PURPOSE: To provide an alternative program for students who need to work or who are contemplating dropping out of school. The following guidelines are in effect:

1. Juniors or seniors interested in this program will obtain an application form from the counseling office. Freshman and sophomores are generally not eligible.

2. A student accepted into the program will need to have a minimum of five (5) other classes during the school day to meet the six (6) class minimum requirement.

3. A student accepted into the Work Study Program could earn a maximum of .5 credit per semester.

4. A student in the Work Study Program would have to work a minimum of 15 hours per week for 18 weeks at the end of each semester.

5. Only two (2) credits will be accepted toward graduation.

6. The student's employer would have to agree to submit a progress evaluation to Skyline High School officials every 18 weeks at the end of each semester.

7. If a student in the program loses his/her job sometime during the semester, he/she must notify a counselor and reapply for work credit, if reemployed.

8. The work study credit would count only as elective credit, so a student would have to take the required courses plus the additional electives in order to meet the 24.5 credits required for graduation.

9. Grading is on a pass/fail basis.

10. A student is ineligible for this program if he/she is enrolled in a regular work study program through the Career Development Center.

Welcome to the home of Skyline High School STEM and VPA Focus Academies

To apply to the STEM Academy at Syline High School, fill out an online application at:

shs.svvsd.org/stem

To apply to the VPA Academy at Syline High School, fill out an online application at:

shs.svvsd.org/vpa

AND

Submit the "Reference page for either academy to the Skyline main office.

Skyline High School STEM Academy

Science
Technology
Engineering &
Mathematics

Mission Statement

The mission of the Science, Technology, Engineering, & Mathematics (STEM) Academy at Skyline High School is to prepare and motivate students toward STEM oriented careers through engineering and project based courses that incorporate creativity, collaboration, critical thinking, and effective communication.

Academy Description

Skyline High School STEM courses are designed so that students have the opportunity to develop multi-cultural relationships within teams to collaboratively solve problems and to develop leadership skills. Hence, the courses not only improve the academic component of the students' lives but also provide valuable life lessons that can be applied to solve tomorrow's problems in the real world.

The Skyline High School STEM Academy has a unique partnership with the University of Colorado's School of Engineeing. Graduate students from this program work directly with Skyline High School faculty in course development and instruction geared towards producing tomorrow's problem solvers. High performing students graduating from the Skyline High School STEM Academy have the ability to earn guaranteed admission into the University of Colorado's School of Engineering.

STEM students will:

- **Utilize** advanced technology and equipment in their STEM courses.
- **Investigate** a wide variety of STEM related fields such as robotics, biotechnology, renewable energy & sustainable living, assistive technologies, structural engineering, biomechanical engineering, computer science, and many more.
- **Design** and **build** advanced engineering projects in the highly equipped Fabrication Laboratory (FabLab)
- **Collaborate** with local businesses and industry through the Skyline Innovation Center.
- **Create** an independent senior design project for presentation at the CU Design Expo during the spring semester.
- **Earn** a STEM certificate upon graduation signifying a readiness for success in post-secondary education.

STEM Academy Education Plan

Students must meet all of the graduation requirements as mandated by the St. Vrain Valley School District. In addition, students who wish to receive a STEM diploma upon graduation must ALSO complete the following requirements:

Students must maintain at least a 2.5 GPA at the end of freshman year, 2.75 GPA at the end of sophomore year, and 3.0 GPA at the end of junior and senior years.

SUBJECT	YEARS REQUIRED
Math	4
Students must successfully complete a minimum level of Pre-Calculus/Trigonometry by graduation.	
Science	4
At least one full credit must be earned each year (at least one year of biology, chemistry, and physics is required). Students must also take at least one full year of any AP science course.	
Single Foreign Language	3
Students must successfully complete at least Level 3 of any one foreign language. Students that complete this requirement in two years will need to take additional elective credits to meet the 28 credit requirement. Students may also meet this requirement by taking two years each of two separate world languages.	
STEM Electives	
Computer Science	0.5
Other STEM Electives	1.0
Any additional math, science, computer science, or STEM class beyond requirements	
STEM Courses	
Explorations in STEM (**Acceptance into the STEM Academy)**	1.0
This year-long course provides students with a foundation in the topics and skills necessary for success in the upper level STEM courses. **This is a required course during freshman year.**	
Creative Engineering (**Prerequisite – Explorations in STEM**)	1.0
This year-long course allows students to learn content that will help support their development of solutions. Building upon Explorations in STEM, students will explore additional career paths while gaining experience working through the en gineering design cycle. Students will hone their verbal and written communication skills, as well as their ability to work effectively in groups.	
Advanced Engineering (**Prerequisite - Creative Engineering**)	1.0
Students take two of these courses during their junior year for a total of 1.0 credit. Classes offered: Advanced 1 (Robotics), Advanced 2 (Biomedical), Advanced 3 (Engineering Science), Advanced 4 (Applied Software Engineering), and Advanced 6 (Electronics)	
Senior Design Course (**Prerequisite - Advanced Engineering**)	1.0

STEM Flowchart of Courses

Science
Technology
Engineering &
Mathematics

STEM Elective

1.5 semesters
Can be taken
any year
(09-12)

Explorations in STEM

One Year
Grade 09

↓

Creative Engineering

One Year
Grade 10

↓

Advanced Engineering

Two Semesters
Grade 11

↓

Senior Engineering Design Project

Two Semesters
Grade 12

STEM Course Descriptions

Grade 09 **1 Year** **1.0 Credit**

ST102A EXPLORATIONS IN STEM A **FEE:** $10.00

ST102B EXPLORATIONS IN STEM B

PREREQUISITE: Acceptance into the STEM Academy

This full-year course provides students with a foundation in the topics and skills necessary for success in the upper level STEM courses. Students will use the engineering design process to complete group projects in which they design, build, and test specific devices. Students will develop hands-on skills used in the manufacturing process and design projects using CAD software, while fostering both teamwork and communication. Students will also explore STEM related careers and post-secondary educational requirements.

Grade 10 **1 Year** **1.0 Credit**

ST109A CREATIVE ENGINEERING A FEE: $10.00

ST109B CREATIVE ENGINEERING B

PREREQUISITE: Explorations in STEM

This full-year course allows students to learn content that will help support their development of solutions. Building upon Explorations in STEM students will gain explore additional career paths while gaining experience through the engineering design cycle. Students will hone their verbal and written communication skills, as well as their ability to work effectively in groups.

Grade 11 **1 Semester** **.5 Credit**

ST120 ADVANCED ENGINEERING 1: Robotics **FEE:** $10.00

ST121 ADVANCED ENGINEERING 2: Biomedical Engineering

ST122 ADVANCED ENGINEERING 3: Engineering Science

CTE123 ADVANCED ENGINEERING 4: Applied Software Engineering (Prerequisite: CTE103 and CTE104 or CTE105)

ST125 ADVANCED ENGINEERING 6: Electronics

ST126 ADVANCED ENGINEERING 7: Historical Technologies *Summer Institute Only*

ST127 ADVANCED ENGINEERING 8: Applied CAD *Summer Institute Only*

PREREQUISITE: Creative Engineering or Teacher Recommendation

The primary objective of the advanced engineering projects course(s) is to provide an in-depth study of a specific engineering discipline primarily through open-ended, hands-on design experiences. The course(s) will begin with specification of design objectives and constraints. They will continue through development, documentation, and analysis of design ideas. They will end with the process of building and testing the solution. Through the cycle, the students are expected to follow a logical process involving careful documentation and quantitative analysis using mathematical tools and scientific principles.

NOTE: STEM Academy students are required to take two semesters of Advanced Engineering. They may be taken in any combination of the indicated focus areas.

Grade 12 **1 Year** **1.0 Credit**

ST130A SENIOR ENGINEERING DESIGN PROJECT A **FEE**: $20.00

ST130B SENIOR ENGINEERING DESIGN PROJECT B

PREREQUISITE: Advanced Engineering

In this course students will complete a year-long engineering design project. Students will first select an area of emphasis for their project. They will research and select a problem within this area to attempt to solve. They will research current technology and applicable sciences to then develop a design for a solution to the problem. They will construct models and prototypes to evaluate and refine their design. Students will conduct formal presentations and will create a website to document their project. Also, students will be expected to present their projects at the CU Design Expo in April. Part of the course will be devoted to guiding students in preparation for their transition into post-secondary education.

STEM Electives

Science & Math count as a STEM elective credit. Once the credits for math or science have been met: additional classes will be calculated as an elective. Computer Science classes are other options for STEM electives.

Skyline High School Visual & Performing Arts Academy

Mission Statement

The mission of the Visual and Performing Arts Academy (VPA) at Skyline High School is to provide a rigorous, comprehensive, and technology-infused arts program that will prepare our students for post-secondary education, careers, or other creative fields, and instill a life-long appreciation for the arts.

Academy Description:

The Visual and Performing Arts Academy at Skyline High School is the only 09-12 arts academy in the St. Vrain Valley School District. As the designated VPA School, Skyline is able to offer a wide variety of courses in visual arts, music, theater, and dance. Some of these unique course offerings include; Voice Performance Class, Stage Technology, Advanced Dance and Drama classes, AP and non-AP Music Theory, Fashion Design, Interior Design, and Video Production.

In addition to these unique course offerings, students in the academy are given additional privileges such as working with practicing artists in the community, attending special VPA events and field trips, and creating a senior design project specific to their artistic interests within the Capstone Course their senior year. Students choose classes in either the Visual Arts area or the Performing Arts area.

VPA Opportunities

- **Join in** one of five choirs, three bands, or two orchestras.
- **Perform** in up to four full-scale drama, comedy and musical theater productions in a professional auditorium.
- **Explore** a large variety of visual arts classes including drawing, painting, sculpture, ceramics, graphic design, digital animation, digital photography and videography from beginning to AP level.
- **Move and groove** with the fastest growing dance program in the school district.
- **Build** sets and learn stagecraft in Stage Technology courses.
- **Plug in** with technology-based art and music classes.
- **Compete** in regional and state-wide marching, jazz, and concert band competitions with the Skyline Band program.
- **Display** artwork publically at both the regional and state level.
- **Sing** in the only vocal performance class offered in the school district designed to help you become a better solo singer.
- **Interact** with professional musicians and artists through the Skyline High School VPA Academy lecture series.
- **Create** an independent senior design project for presentation to, and evaluation by, Skyline High School's VPA Advisory Board and community members.
- **Get help** through counseling services specific to VPA in customizing your class schedule, finding scholarships or choosing a college.
- **Graduate with a VPA Certificate** and a comprehensive portfolio of your work for college applications, auditions and art related vocations.

VPA Flowchart of Courses

*Progression of courses may vary in a four year plan.

VPA Flow Chart

*Beg. Drawing .5

*2D Design Beg. .5

*3D Design Beg. .5

*Int. Drawing .5

*2D Design Int. .5

*3D Design Int. .5

*Adv. Draw/Paint .5

*2D Design Adv. .5

*3D Design Adv. .5

Students choose 1 AP portfolio 1.0

*AP Studio Art 2D Design

*AP Studio Art 3D Design

*AP Studio Art Drawing

Elective .5

Capstone .5

Elective .5

All Other Electives

Beg. Ceramics

Int. Ceramics

Beg. Jewelry

Adv. Jewelry

Beg. Digital Photography

Adv. Digital Photography

** Required course to graduate with a VPA certification*

Please be sure to read course descriptions for prerequisites in both intermediate and advanced Art courses.

Art

A105 BEGINNING CERAMICS **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: None

Beginning Ceramics is designed for students who have an interest in working with clay. Students will work on making functional as well as sculptural pieces, using both hand-building and wheel throwing methods. Well thought out design, aesthetics, and the creative development of clay objects examining cultural, historical, and personal modes of expression are emphasized.

A106 INTERMEDIATE CERAMICS **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: Beginning Ceramics

Intermediate Ceramics builds upon skills learned in Beginning Ceramics and further introduces more advanced study into a variety of clay bodies, surface treatments and methods of firing. As well, an emphasis is placed on developing individual voice and style through a focus on contemporary themes in today's visual arts community.

A107 ADVANCED CERAMICS **1 Semester** **.5 Credit**

(10, 11, 12) **FEE:** $30.00

PREREQUISITE: Beginning and Intermediate Ceramics

This class is recommended for students who excel in ceramics. Students who take this course should have a high level of motivation, diligence, commitment, and independence. Students will be encouraged to develop a personal direction or "voice" in their work. In addition to work created in class, students will be expected to work outside class time, participate in critiques and discussions, complete daily exercises to advance skills, maintain a sketch book and prepare their work for showings. .

A110 BEGINNING DRAWING **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: None

This class focuses on realistic drawings with understanding of the mechanics of light, shadow, and proportion. This approach allows beginning students to develop technical and compositional skills to make drastic improvements in their drawing abilities and more experienced artist to refine their skills. Drawing projects are taught through various techniques such as right brain drawing, grid drawing, value gradients, portrait art, and still life. Mediums covered may include graphite, charcoal, pen and ink, color pencil.

A111 INTERMEDIATE DRAWING **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: Beginning Drawing

This course covers more advanced skills not possible at the beginning level. Experimentation in additional drawing materials and techniques are covered such as perspective drawing, physical anatomy, figure drawing, pastels, pen and ink.

A113 ADVANCED DRAW/PAINT **1 Semester** **.5 Credit**

(10, 11, 12) **FEE:** $30.00

PREREQUISITE: Beginning and Intermediate Drawing and/or Painting

This is a course for the advanced art student who wants to pursue individual interest in intensified studies in drawing and/or painting. Advanced techniques will be presented to give the student the opportunity to improve skills, explore various media combinations, and learn from peer critiques. Students will create original and high quality art. Students will be assessed on the originality, skills, and quality of their artwork.

A114 BEGINNING JEWELRY **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: None

Students will explore various metalsmithing techniques such as cutting and bending, cold joining, soldering, etching, and enameling. Students will be expected to develop and maintain a sketchbook that chronicles their investigation and creative processing in making jewelry. (*Many of the materials and equipment used are potentially dangerous to people with health concerns like breathing disorders or motor skills disorders.)

A115 ADVANCED JEWELRY **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: Beginning Jewelry

Advanced Jewelry explores more advanced, complex metalsmithing techniques such as casting, soldering, chain making, stone setting, alternative jewelry, and cold joining. Students will be expected to develop and maintain a sketchbook that chronicles their investigation and creative processing in making jewelry.
*Many of the materials and equipment used are potentially dangerous to people with health concerns like breathing disorders or motor skills disorders.

A122 BEGINNING DIGITAL PHOTOGRAPHY **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: None

This course is designed for students who are interested in learning the fundamentals of photography and of digital photographic manipulation and computer graphics. It will cover the elements of photographic composition, as well as the basic to intermediate features of Adobe Photoshop. The Elements and Principles of Art and the Colorado Visual Arts Standards will guide the curriculum as students develop visual understanding and apply critical thinking skills. The history of photography and the camera will be covered. Students will use class point and shoot cameras. A lab fee is charged for all studio classes.

A123 ADVANCED DIGITAL PHOTOGRAPHY **1 Semester`** **.5 Credit**
(9, 10, 11, 12) **FEE**: $30.00

PREREQUISITE: Beginning Digital Photography

This course is designed to expand on the technical and creative concepts acquired in beginning digital photography. Topics of instruction include: photographic history, advanced digital camera functions, exposure control, introduction to studio lighting, computer manipulation of images, digital archiving, digital output options, and digital print finishing. The class includes lectures, visual presentations, lab time, and a portfolio. Students have access to rental of a DSLR, but our supply is limited- students are encouraged to use their own. The Elements and Principles of Art and the Colorado Visual Arts Standards will guide the curriculum as students develop visual understanding and apply critical thinking skills. A lab fee is charged for all studio classes.

A150 2D DESIGN BEGINNING **1 Semester** **.5 Credit**
(09, 10, 11, 12) FEE: $30.00

PREREQUISITE: None

This beginning level class focuses on the elements and principles of design, with a strong introduction to technique in a variety of 2 dimensional design media such as photography, digital art and mixed media. It delves into the creative process, art history and art criticism, while introducing students to design, techniques and materials. Students will be expected to develop and maintain a sketchbook that chronicles their investigation and creative processing in making artwork. This class is designed to prepare students technically and compositionally for more intensive studies in the upper level 2D classes.

A151 2D DESIGN INTERMEDIATE **1 Semester** **.5 Credit**
(09, 10, 11,12) **FEE: $**30.00

PREREQUISITE: 2D Design Beginning

This class will build on the foundation built in Beginning 2D. Students will use their knowledge of techniques and materials to discover their individual styles and artistic identities. A deeper understanding of the elements and principles of design will develop through exploring additional materials, software and techniques. Students will further develop their research and investigation skills within their sketchbook.

A152 2D DESIGN ADVANCED **1 Semester** **.5 Credit**
(10, 11,12) **FEE: $**30.00

PREREQUISITE: 2D Design Intermediate

This class is for students who wish to continue their study of 2 dimensional design. It provides continued study in the elements and principles, techniques and materials of 2 dimensional design and digital media with an emphasis on visual communication, concept, student voice and style. This class is design to prepare and assist students taking the AP Studio Art 2D Design portfolio.

A160 3D DESIGN BEGINNING **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: None

This beginning level class focuses on the elements and principles of design, with a strong introduction to technique in a variety of 3-dimensional media. It delves into the creative process, art history and art criticism, while introducing students to ceramics, sculpture, and Industrial Design. Students will be expected to develop and maintain a sketchbook that chronicles their investigation and creative processing in making artwork. This class is designed to prepare students technically and compositionally for more intensive studies in the upper level 3D classes.

A161 3D DESIGN INTERMEDIATE **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $30.00

PREREQUISITE: 3D Design Beginning

This class will build on the foundation built in Beginning 3D. Students will work with a broad range of materials and techniques to investigate both the historic and traditional methods of making sculpture, as well as the exploring the manners of fabricating three dimensional art that have been developed since the turn of the Twentieth Century. Students will further develop their research and investigation skills within their sketchbook.

A162 3D DESIGN ADVANCED **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** $30.00
PREREQUISITE: 3D Design Intermediate

This class is for students who wish to continue their study of 3 dimensional design. It provides continued study of the elements and principles, techniques and materials of 3 dimensional design with an emphasis on concept, student voice and style. This class is designed to prepare and assist students taking the AP Studio Art 3D Design portfolio.

A500A AP STUDIO ART DRAWING A **1 Year** **1 AP Weighted Credit**
A500B AP STUDIO ART DRAWING B **Fee:** $30.00 per semester

(11, 12)

PREREQUISITE: Advanced Drawing or teacher recommendation

AP Studio Art Drawing is a course designed to be the equivalent of a general entry level college art course that culminates with the submission of a portfolio to the national College Board association, in May of the participatory school year. According to the AP College Board: "the term 'drawing' is used very broadly; all sorts of art that involves directly making marks on a surface can fit into this portfolio. This includes not only work in traditional drawing media -- such as pencils, ink, and pastels -- but also many kinds of painting, printmaking, and other forms of expression. In the drawing portfolio, mastery of drawing can be demonstrated through a wide range of approaches and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and the illusion of depth are drawing issues that can be addressed through a variety of means, which could include painting, printmaking, mixed media, etc. Abstract, observational, and inventive works may be submitted. The range of marks used to make drawings, the arrangement of the marks, and the materials used to make the marks are endless. Videotapes and three-dimensional work may NOT be submitted for the drawing portfolio. Any work submitted in the drawing portfolio that incorporates digital or photographic processes must address drawing issues such as those listed above, with emphasis on mark-making. Using computer programs merely to manipulate photographs through filters, adjustments, or special effects is not appropriate for the Drawing portfolio. Students' work (in either traditional or technologically manipulated media) that makes use of photographs, published images, and/or other artists' works or computer software must show development beyond duplication. This development may be demonstrated through the manipulation of the formal qualities, design, and/or concept of the original work." (apcentral.collegeboard.com)

At Skyline, the course is designed to support the College Board standards for this class and projects are assigned accordingly. First semester focuses on a more structured curriculum developing compositional skills and concept building, with technique being largely self-driven. Second semester focuses on developing ones individual direction and voice. Students who take this course should have a high level of motivation, diligence, commitment, and independence.

A505A AP STUDIO ART 2D DESIGN A **1 Year** **1 AP Weighted Credit**
A505B AP STUDIO ART 2D DESIGN B **FEE:** $30.00 per semester
(11, 12)

PREREQUISITE: 2D Design Advanced or teacher recommendation

AP Studio Art 2D Design is a course designed to be the equivalent of a general entry level college art course that culminates with the submission of a portfolio to the national College Board association, in May of the participatory school year. According to the AP College Board, the 2-dimensional design portfolio: "is intended to address a broad interpretation of two-dimensional design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. The elements of design (line, shape, illusion of space, illusion of motion, pattern, texture, value and color) are like a palette of possibilities that artists use to express themselves. The principles of design help guide artists in making decisions about how to organize the elements on a picture plane in order to communicate content. These principles include unity/variety, balance, emphasis, rhythm and proportion/scale. A variety of approaches to representation, abstraction and expression may be part of the student's portfolio…students are asked to demonstrate proficiency in 2D Design using a variety of art forms. These could include, but are not limited to, graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, printmaking, etc." (apcentral.collegeboard.com)

At Skyline, the course is designed to support the College Board standards for this class and projects are assigned accordingly. First semester focuses on a more structured curriculum developing compositional skills and concept building, with technique being largely self-driven. Second semester focuses on developing ones individual direction and voice. Students who take this course should have a high level of motivation, diligence, commitment, and independence.

A510A AP STUDIO ART 3D DESIGN A **1 Year** **1 AP Weighted Credit**
A510B AP STUDIO ART 3D DESIGN B **FEE:** $30.00 per semester
(11, 12)

PREREQUISITE: 3D Design Advanced or teacher recommendation

AP Studio Art 3D Design is a course designed to be the equivalent of a general entry level college art course that culminates with the submission of a portfolio to the national College Board association, in May of the participatory school year. According to the AP College Board, the 3-dimensional design portfolio: "is intended to address a broad interpretation of three-dimensional design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. The elements of design (line, shape, illusion of space, illusion of motion, pattern, texture, value and color) are like a palette of possibilities that artists use to express themselves. The principles of design help guide artists in making decisions about how to organize the elements on a picture plane in order to communicate content. These principles include unity/variety, balance, emphasis, rhythm and proportion/scale. A variety of approaches to representation, abstraction and expression may be part of the student's portfolio…students are asked to demonstrate proficiency in 3-D Design using a variety of art forms and media. These include, but are not limited to, clay, wire, found object, paper, papier mache, wood, plaster, stone, mobile, functional, sculptural, etc." (apcentral.collegeboard.com)

At Skyline, the course is designed to support the College Board standards for this class and projects are assigned accordingly. First semester focuses on a more structured curriculum developing compositional skills and concept building, with technique being largely self-driven. Second semester focuses on developing ones individual direction and voice. Students who take this course should have a high level of motivation, diligence, commitment, and independence.

VP400 VPA CAPSTONE (Independent Study) **2 Semesters** **.25 Credit/Semester**
(12) **FEE:** None

PREREQUISITE: VPA Senior in good standing with the VPA Academy

This course is specifically designed for Visual & Performing Arts Academy seniors to take during the first or second semester in collaboration with their VPA advisor. The VPA Capstone Project consists of three parts: documentation of outstanding previous work throughout your tenure in the VPA program, an artistic work/volunteer experience outside of school, as well as a culminating showcase of newly crafted work. These pieces can all be built into your concurrent VPA classes. First semester registration is encouraged for students who want to utilize the output of this class for college auditions/applications.

Business

CTE9001 ACCOUNTING I **1 Semester** **.5 credit**

(10, 11, 12) **FEE:** None

PREREQUISITE: Introduction to Business

This course is strongly recommended for any student who plans to pursue a business major in college. Accounting is a core requirement for any business degree.

Are you interested in a high paying job? Would you like to improve your money management skills? This course provides students with an understanding of the basic elements and concepts of accounting with emphasis on the procedures used for maintaining journals, ledgers, and for completion of the end-of-period reports. This course will cover the accounting cycle for a sole proprietorship. Computerized accounting will be introduced

CTE9051 INTRODUCTION TO BUSINESS **1 Semester** **.5 credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

Would you like to learn about the world of business? This course focuses on the operations of the American business system. Fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business, and social responsibilities will be covered.

Computer Science

*Can be used for STEM elective certification

CTE103 INTRODUCTION TO PROGRAMMING* **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

This course emphasizes programming methodology with a concentration on problem-solving and algorithm development. The concepts carry over directly to subsequent study of systems languages such as Java, C++, etc. The topics to be covered include: variable types, input/output, branching, recursion, lists/arrays, functions, files and exceptions. If time allows, topics of Object–Oriented programming (encapsulation, polymorphism, and inheritance) will also be covered. By the end of the course, the goal is for the student to understand the primary skills of developing an algorithm and program design. No previous programming knowledge is required.

CTE104 INTRODUCTION TO COMPUTING **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

Computers are everywhere, and have been for some time. Computers are used in such a variety of fields and contexts that having a good understanding of how computers store and display data is essential in today's world. This class will teach students to use computers for displaying data and their own creations, with an emphasis on how computers handle colors, sounds, and graphics.

CTE105A COMPUTER SCIENCE A **2 Semesters** **.5 Credit/Semester**

CTE105B COMPUTER SCIENCE B **FEE:** None

(10, 11, 12)

PREREQUISITE: Intro to Programming and Intro to Computing are recommended, or instructor approval

Computer Science is an intermediate course in computer programming. Students will learn the traditional concepts of procedural computer programming, including input, processing, output, simple and complex functions, decision structures, Boolean logic, algorithms, exception handling and persistence of data. In addition, students will learn the basics of Object-Oriented Programming. Throughout the year, students will solve numerous programming challenges and also work on large-scale projects. While designing their projects, students are encouraged to focus on topics of their own choice, and are encouraged to explore computer programming as both an art and a science. Students who successfully complete this course will be able to enter AP Computer Science able to focus on the complexities in object-oriented design.

CTE106 TECHNOLOGY 1 **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $15

PREREQUISITE: None

Tech 1 introduces students to the Information Technology industry. It covers mobile, tablets, laptops and desktops, and teaches students to troubleshoot networking and security issues within operating systems such as Linux, Windows, Mac OS and more. Students who succeed in this class will be ready to take the CompTIA IT Fundamentals test, and will be better positioned to take Tech 2 or Computer Sciences courses.

**This class is taught at the District's Career Development Center (CDC).*

CTE107 TECHNOLOGY 2 **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** $15

PREREQUISITE: Tech 1

Tech 2 is designed for students who have experience with computers and Mac OS. It offers the chance to gain knowledge and skills specific to Apple Mac hardware and software. Students will gain real world experience solving issues with Mac OS and disassembling and repairing Mac computers. Those who succeed in this class will be ready to take the Apple Certified Mac and iOS Technician certification tests. Students passing this official Apple certification will be eligible to work on the Innovation Center Tech Team. Graduating certified students will meet with Apple representatives to find placement in tech jobs at Apple and on college campuses.

**This class is taught at the District's Career Development Center (CDC).*

CTE123 ADV. ENG 4: APPLIED SOFTWARE ENGINEERING **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** None

PREREQUISITE: Computer Science or AP Computer Science Principles

This is a one semester course for students who have a complete either Computer Science or AP Computer Science Principles. In this course, students will learn how to design effective robust software applications using techniques that are familiar to computer programmers in both the educational and commercial spheres. Students will form programming teams that work together through all stages of the software development process. From the initial planning using requirements from clients, to the extended implementation and testing phase, students will develop problem-solving strategies that will later transfer to various challenges they will face in their educational career. Students will form a close team of programmers who will work together on a software project of their choosing.

CTE130 STEM CO-OP **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** None

PREREQUISITE: Apple Certification

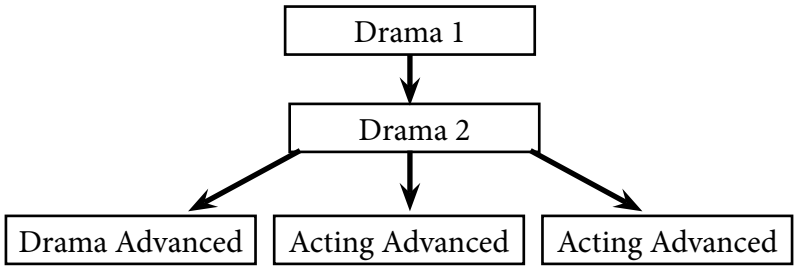
This is an advanced course that is only available for students who have their Apple Certification. It is available any hour to fit into any student's schedule. This is a practicum where students earn credit for working at the Innovation Center.

CS510A AP COMPUTER SCIENCE PRINCIPLES A **1 Year** **1 AP Weighted Credit**
CS510B AP COMPUTER SCIENCE PRINCIPLES B **FEE:** None
(10, 11, 12)

PREREQUISITE: Successful completion of Computer Science A & B and Algebra 1

The goals of this course are comparable to a first year college course in computer science. The course is intended to serve both as an introductory course for computer science majors and as a substantial course for those who will major in other disciplines that require significant involvement with computing. The topics covered will be those set by the Advanced Placement course description for Computer Science. Students who successfully complete this course usually elect to take the Advanced Placement examination in Computer Science at the A or AB level. AP computer Science Principles will be taught using the various programming languages.

Drama Flowchart of Courses



Drama

LA400 DRAMA 1 **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** None
PREREQUISITE: None

Students will learn basic skills in acting through vocalization, movement, characterization, scenes and final monologue. They will also gain an understanding of basic theatre terms.

LA401 DRAMA 2` **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** None
PREREQUISITE: Drama 1

Students will build on what they learned in Drama 1. They will explore more in depth scenes and monologues while building their theatrical skills.

LA402 DRAMA ADVANCED **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** None
PREREQUISITE: Drama 2

Students will begin the process of play analysis by reading a small selection of plays. Students will also perform more in depth pieces of theatre and be able to analyze them closely.

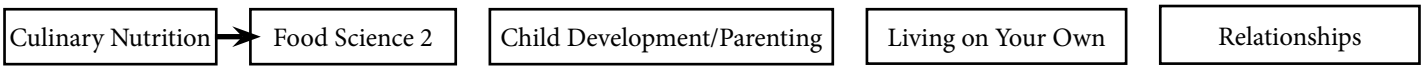
MU220 MUSICAL THEATRE **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** None
PREREQUISITE: Drama 1

Students will learn the basics of musical theatre and have the opportunity to perform as a class, in groups, duets, and solos. Students will gain a deeper understanding of how to perform musical theatre pieces.

TH160 ACTING ADVANCED **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** None
PREREQUISITE: Drama 1 & 2

Students will learn the various methods of acting to better enhance their skills. The will also have the chance to act on film, direct small scenes and write their own scenes.

Family and Consumer Sciences Flowchart of Courses



Family and Consumer Sciences

CTE9412 FOOD SCIENCE 2 **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** $20.00

PREREQUISITE: Culinary Nutrition

This course is designed for students interested in increasing their knowledge and skills related to nutrition and wellness, food production and service, advanced cooking techniques, and meal planning. Learning experiences include cake decorating, consumerism, garnishing, cultural foods, food related careers, alternative diets, and entertaining. Class work and lab work will give students an intellectual and hands-on experience. Students will not be cooking and/or eating in this class every day.

CTE9413 CULINARY NUTRITION **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** $20.00

PREREQUISITE: None

This course is designed for students interested in human nutrition. Learning to prepare and enjoy a variety of foods is a major emphasis of this class. Topics include: food safety and sanitation, the new food pyramid, dietary guidelines, the six essential nutrients, meal planning, money and time management skills , and preparation techniques. Proper use and care of kitchen equipment will be practiced. Learning experiences combine class work and lab work to give students an intellectual and hands-on experience. Students will not be cooking and/or eating in their class every day.

CTE9421 LIVING ON YOUR OWN **1 Semester** **.5 Credit**

(11, 12) **FEE:** $10.00

PREREQUISITE: None

This course is designed for juniors and seniors who want to develop survival skills necessary for living on their own. Learning experiences will include opportunities in making wise decisions about housing and living environments. Students will gain information which will allow them to make better use of their personal finances in regards to budgeting, banking knowledge and investing strategies. Students will also learn how to purchase and maintain a vehicle, care for clothing, and make wise food choices. This class also enables students to learn about job related issues. Students taking this class will be better prepared for the real world.

CTE9441 RELATIONSHIPS

(11, 12) **1 Semester** **.5 Credit**

PREREQUISITE: None **FEE:** $5.00

This course deals with everyday life and interpersonal interaction that every male and female should know. The Relationships class teaches about having a good connection with friends, family, and loved ones as well as one's significant other. This class explores the variety of relationships that one may encounter during a lifetime. It allows the student to explore areas such as dating, marriage, aging, death, abuse prevention, addictions, suicide, sexually transmitted diseases, happiness, and success. This is not a shy class and nothing is held back. Take a chance, join the fun, and learn something, too.

Language Arts Flowchart of Courses

9th Grade	English 9	Honors English 9			
10th Grade	English 10	Honors English 10			
11th Grade	English 11	AP Language	AP Literature	FRCC Comp. 121	FRCC Eng. 122
12th Grade	Senior Elective	Senior Elective		FRCC Com. 115	FRCC Intro to Lit.

Electives

- Career English
- Mystery & Suspense
- Science Fiction
- Young Adult Novels
- Any English FRCC Class
- Creative Writing
- Mythology
- Senior College Writing *Recommended for Juniors taking AP Classes or FRCC*

Every student is expected to take a minimum of two (2) semesters of English courses every academic year.

Language Arts

LA110A ENGLISH 9A **1 Year** **1 Credit**
LA110B ENGLISH 9B **FEE:** None
(09)
PREREQUISITE: None

In Grade 9, instructional time should focus on four critical areas: (1) Oral Expression and Listening which requires effective preparation strategies and listening critically to comprehend a speaker's message. (2) Reading for All Purposes which requires analyzing and comparing increasingly complex literary elements in traditional and contemporary works of literature and informational texts. (3) Writing and Composition of literary, narrative, informational and persuasive texts using proper grammar, usage, and mechanics. (4) Research and Reasoning which requires collecting, evaluating, and analyzing a variety of informational materials for accuracy, relevance, and effectiveness. Students will also use effective problem-solving strategies that require high-quality reasoning. These concepts and associated skills are aligned with the Colorado Academic Standards for Language Arts, incorporating 21st Century skills and post-secondary and workforce readiness competencies.

LA113A ENGLISH HONORS 9A **1 Year** **1 Honors Weighted Credit**
LA113B ENGLISH HONORS 9B **FEE:** None
(09)
PREREQUISITE: None

English Honors 9 is designed for students who desire a rigorous study of English. Students will engage in higher-level analysis of more challenging texts. They will demonstrate sophisticated fluency, control, and reasoning in their writing, researching, and speaking — all with the aim of preparing them for AP courses, postsecondary education, and workforce readiness. Evaluation is based on a variety of challenging assessments.

Completion of a summer assignment is mandatory for all English Honors 9 students and is due the first day of class in August. Please visit the Skyline website for a link, or go to http://bit.ly/shs-summer-reading.*

*****To be successful in English Honors 9, students must complete daily homework. Students are expected to complete both semesters of English Honors 9 unless they are earning a D or F at the end of first quarter or first semester, in which case they may be moved into LA110 English 9.*****

LA120A ENGLISH 10A **1 Year** **1 Credit**
LA120B ENGLISH 10B **FEE:** None
(10)
PREREQUISITE: None
In Grade 10, instructional time should focus on four critical areas: (1) carefully gathering and organizing information influences an audience; active listening is critical to operating in groups; (2) reading in order to develop new ideas; to understand literary, persuasive, and informational texts; and to determine literary and historical influences; (3) engaging an audience through stylistic devices, organizational patterns and effective revision/editing; (4) using valid and accurate research to answer questions, propose solutions, or share findings while employing reasoning skills. These concepts and associated skills are aligned with the Colorado Academic Standards for language arts, incorporating 2st Century skills and post-secondary and workforce readiness competencies.

LA121A ENGLISH HONORS 10A **1 Year** **1 Honors Weighted Credit**
LA121B ENGLISH HONORS 10B **FEE:** None
(10)
PREREQUISITE: None
In Grade 10, instructional time should focus on four critical areas: (1) carefully gathering and organizing information influences an audience; active listening is critical to operating in groups; (2) reading in order to develop new ideas; to understand literary, persuasive, and informational texts; and to determine literary and historical influences; (3) engaging an audience through stylistic devices, organizational patterns and effective revision/editing; (4) using valid and accurate research to answer questions, propose solutions, or share findings while employing reasoning skills. HONORS courses place a greater emphasis on critical thinking to gain greater depth in these standards, while transitioning these students to a more independent use of these skills. These concepts and associated skills are aligned with the Colorado Academic Standards for language arts, incorporating 21st century skills and post-secondary and workforce readiness competencies.

Completion of a summer assignment is mandatory for all English Honors 10 students and is due the first day of class in August. Please visit the Skyline website for a link, or go to http://bit.ly/shs-summer-reading.

****To be successful in English Honors 10, students must complete daily homework. Students are expected to complete both semesters of English Honors 10 — unless they are earning a D or F at the end of first quarter or first semester, in which case they may be moved into LA120 English 10.****

LA130A ENGLISH 11A **1 Year** **1 Credit**
LA130B ENGLISH 11B **FEE:** None
(11)
PREREQUISITE: None
This course provides juniors with the opportunity to refine their analytical thinking, reading, and writing skills through their study of American Literature. Evaluations will be based on participation in class discussions, completion of homework assignments, essays and research assignments, projects, quizzes, and tests.

LA204 CAREER ENGLISH **1 Semester** **.5 Credit**
(11, 12) **FEE:** None
CO-REQUISITE: It is recommended that Students enrolled in Career English also be enrolled in Work Study, either prior to the start of the course or during the semester the course is taken.

This course is designed to prepare students who are transitioning from high school to the job market through the practical applications of the skills needed to be successful in this transition. During this semester-long class, students will explore and research career options; write to a variety of business forms, including job queries, resumes, cover letters, and business plans; sharpen interview skills; and gain familiarity and experience in the real-world skills potential employers expect from their workforce. Through mandatory participation in Work Study, students will acquire valuable, paid work experience.

LA207 CREATIVE WRITING **1 Semester** **.5 Credit**
(11, 12) **FEE:** None
PREREQUISITE: None
Creative Writing allows students to use and further develop their writing skills in more creative areas such as, poetry, fiction, and creative non-fiction. Classroom activities include reading, discussion, writing time, and both peer- and self-evaluation.

LA217 MYSTERY LITERATURE/ SUSPENSE LITERATURE

(11, 12) **1 Semester** **.5 Credit**

PREREQUISITE: None **FEE:** None

This course is designed for seniors who are interested in detective and suspense fiction. It is intended to prepare students for real-life leisure reading and will cover novels, short stories, plays, and books on tape and film.

LA219 MYTHOLOGY **1 Semester** **.5 Credit**

(11, 12) **FEE:** None

PREREQUISITE: None

This course is designed for students to explore the mythologies of cultures around the world. Students will analyze concepts common to all mythology, such as origin myths and Joseph Campbell's Hero's Journey. They will discuss how the concepts of mythology and storytelling have evolved, including what we could classify as "myth" today. This course requires creative and analytical writing as well as in-depth research and close reading of both myths and non-fiction texts related to mythology.

LA221 SCIENCE FICTION **1 Semester** **.5 Credit**

(11, 12) **FEE**: None

PREREQUISITE: None

What do the worlds of Science Fiction teach us about our own world? We will try and answer this question through the reading of texts and viewing of films in these four units: (Hu)Man and Machine, Robots and Mechanical Men, Utopia, and Stranger in a Strange Land.

LA222 SENIOR ENGLISH COLLEGE WRITING **1 Semester** **.5 Credit**

(11, 12) **FEE:** None

PREREQUISITE: 10th Grade English

This course is offered to students during the fall semester. It is designed to prepare students for a smooth transition from their senior year of high school to their first year of college. During this semester, students will be researching potential colleges, filling out mock and real college applications, preparing scholarship essays, finding letters of recommendation, and learning about time management. Juniors will receive senior English credit.

Juniors taking **AP English Language and Composition and English 11 are strongly recommended to take this course concurrently, which will allow them to get a jump start on the college selection process.*

LA224 SHAKESPEARE **1 Semester** **.5 Credit**

(11, 12) **FEE:** None

PREREQUISITE: None

Students will explore Elizabethan England and the life and writings of William Shakespeare by reading, analyzing, discussing and responding to sonnets and various history, comedy and tragedy plays. Student responses to the literature will include essays, tests and presentations.

LA228 YOUNG ADULT NOVELS **1 Semester** **.5 Credit**

(11, 12) **FEE:** None

PREREQUISITE: None Be ready to leave this class with a newfound desire to read on your own! Several in-class novels (in the past we've read: Speak, Bronx Masquerade, Tears of a Tiger, and Monster) are read to discuss the very personal issues that many teens are facing every day. Students supplement the required texts with their own independent novels (approximately three in the semester). Students are evaluated on reading (in and out of class), projects, tests, presentation, and class discussion/participation.

LA426A NEWSPAPER A **1 Year** **1.0 Credit**
LA426B NEWSPAPER B **(Seniors may use .5 for English Credit)**
(09, 10, 11, 12) **FEE:** None
PREREQUISITE: Application process

This course will teach students of all grade levels professional writing and communication. Students will maintain an ongoing, on-line news organization centered around Skyline and the Longmont community. They will read from local, national and international model news organizations, study journalistic ethics and accepted practices, learn about organizational communication, bias, purpose and writing for a targeted audience. There will also be a component of news website design and maintenance.

LA500A AP ENGLISH LANGUAGE & COMPOSITION A
LA500B AP ENGLISH LANGUAGE & COMPOSITION B
(11, 12) **1 Year** **1 AP Weighted Credit**
PREREQUISITE: None **FEE:** Independent novels not to exceed $35

As specified by the College Board, the focus of this course is on rhetoric and style. Rhetoric is defined as "the art of crafting effective texts for specific audiences," and style is defined as "the unique adaptation of language to ideas." American Literature and nonfiction texts will take center stage in studying language as a persuasive tool and the dynamic relationship of writer, context, audience, and argument. Evaluation is based on essays, in-class work, and timed writing assignments. Emphasis is on preparation for the AP English Language & Composition Exam.

Completion of a summer assignment is mandatory for all AP English Language and Composition students and is due the first day of class in August. Please visit the Skyline website for a link, or go to http://bit.ly/shs-summer-reading.

*****To be successful in AP English Language & Composition, students must complete daily homework. Students are expected to complete both semesters of AP English Language & Composition — unless they are earning a D or F at the end of first quarter or first semester, in which case they may be moved into LA130 English 11.***

LA510A AP ENGLISH LITERATURE A **1 Year** **1 AP Weighted Credit**
LA510B AP ENGLISH LITERATURE B **FEE:** Independent novels not to exceed $35
(12)
PREREQUISITE: None

As specified by the College Board, this course is designed to provide a college level literature and composition course for seniors who have excelled in sophomore and junior classes. Course content includes units in the study of composition, short stories, dramas, novels, poetry, and essays. Evaluation is based on composition grades, in-class and timed writings, and class discussions. Emphasis is on preparation for the AP English Literature and Composition Exam.

Completion of a summer assignment is mandatory for all AP English Literature students and is due the first day of class in August. Please visit the Skyline website for a link, or go to http://bit.ly/shs-summer-reading.

*****To be successful in AP English Literature, students must complete daily homework. Students are expected to complete both semesters of AP English Literature — unless they are earning a D or F at the end of first quarter or first semester, in which case they may be moved into an English elective.***

Language Arts Front Range Community College Courses

*Front Range English classes only count toward 12th grade English requirements.
*They do not replace 11th grade English, but may be taken during your junior year.

PS600 FRC COM 115—PUBLIC SPEAKING **(3 Credits—45 contact hours)**
(11, 12) **1 Semester** **.5 Credit**

This course combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

PS605 FRC ENG 121—ENGLISH COMPOSITION I **(3 Credits—45 contact hours)**
(11, 12) **1 Semester** **.5 Credit**

This course emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. It includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing.

PS606 FRC ENG 122—ENGLISH COMPOSITION II **(3 Credits—45 contact hours)**
(11, 12) **1 Semester** **.5 Credit**
This course expands and refines the objectives of English Composition I. It emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research.

PS620 FRC LIT 115--INTRODUCTION TO LITERATURE I **(3 Credits—45 contact hours)**
(11, 12) **1 Semester** **.5 Credit**
This course introduces students to fiction, poetry, and drama. It emphasizes active and responsive reading.

Mathematics Flowchart of Courses

9th Grade:	Algebra 1	Geometry Honors	Algebra 2 Honors
10th Grade:	Geometry Geometry Honors	Algebra 2 Honors	Pre-Calculus Honors
11th Grade:	Algebra 2 Algebra 2 Honors	Pre-Calculus Honors	AP Calculus
12th Grade:	Pre-Calculus Pre-Calculus Honors	AP Calculus AP Statistics	Calculus 2 AP Statistics

* The above flowchart is intended only as an example. A student's math proficiency, along with teacher recommendation, will determine proper student placement.

* Teachers, rather than students, will be registering students for their recommended course.

* In order to graduate from Skyline High School, three years of mathematics courses are required.

* Four years of mathematics courses are recommended for the college bound student.

Mathematics

MA110A ALGEBRA 1A **1 Year** **1 Credit**
MA110B ALGEBRA 1B **FEE:** None
(09)
PREREQUISITE: None
Algebra 1 focuses on four critical areas: (1) using units and relationships between quantities; (2) reasoning with equations and expressions; (3) analyzing and using linear, exponential and quadratic functions; and (4) interpreting and displaying data using descriptive statistics. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st Century skills and postsecondary and workforce readiness competencies.

MA115A GEOMETRY A **1 Year** **1 Credit**
MA115B GEOMETRY B **FEE:** None
(09, 10)
PREREQUISITE: Algebra 1
Geometry focuses on four critical areas: (1) exploring congruence, similarity and right-triangle relationships; (2) developing proof using constructions and coordinate geometry; (3) using area and volume to model and solve problems; and (4) applying probability to explore events of chance. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st Century skills and postsecondary and workforce readiness competencies.

MA116A GEOMETRY HONORS A **1 Year** **1 Honors Weighted Credit**
MA116B GEOMETRY HONORS B **FEE:** None

(09, 10)

PREREQUISITE: Algebra 1 and/or teacher recommendation

Geometry Honors focuses on four critical areas in greater depth: (1) exploring congruence, similarity and right-triangle relationships; (2) developing proof using constructions and coordinate geometry; (3) using area and volume to model and solve problems; and (4) applying probability to explore events of chance. Students also have the opportunity to study advanced geometric constructions, proving advanced properties of triangles and quadrilaterals, the Law of Sines and the Law of Cosines, and area and volume relationships among similar figures.

MA120A ALGEBRA 2A **1 Year** **1 Credit**
MA120B ALGEBRA 2B **FEE:** None
(09, 10, 11, 12)

PREREQUISITE: Geometry

Algebra 2 focuses on three critical areas: (1) analyzing and using polynomial, rational, radical, exponential logarithmic, and trigonometric functions; (2) modeling sequences and series with recursive and explicit functions; and (3) making statistical inferences from data. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA121A ALGEBRA HONORS 2A **1 Year** **1 Honors Weighted Credit**
MA121B ALGEBRA HONORS 2B **FEE:** None
(09, 10, 11, 12)

PREREQUISITE: Geometry Honors and/or teacher recommendation

Algebra Honors 2 focuses on three critical areas in greater depth: (1) analyzing and using polynomial, rational, radical, exponential logarithmic, and trigonometric functions; (2) modeling sequences and series with recursive and explicit functions; and (3) making statistical inferences from data. Students also have the opportunity to study matrices to solve multi-variable systems of equations, the Fundamental Theorem of Algebra, the binomial theorem, rational and radical functions, properties of logarithms and conic sections.

MA125 STATISTICS (Non-AP) **1 Semester** **.5 Credit**
(11, 12) **FEE:** None
PREREQUISITE: Algebra 2 and/or teacher recommendation

Statistics focuses on three critical areas: (1) conditional probability and the rules of probability; (2) using probability to make decisions; (3) using descriptive statistics and data distributions. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st Century skills and postsecondary and workforce readiness competencies.

MA127 TRIGONOMETRY **1 Semester** **.5 Credit**
(11, 12) **FEE:** None
PREREQUISITE: Algebra Honors 2 and/or teacher recommendation

Trigonometry focuses on two critical areas: (1) trigonometric functions and (2) applications of Trigonometry. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st Century skills and postsecondary and workforce readiness competencies.

MA133A PRE-CALCULUS WITH TRIG A **1 Year** **1 Credit**
MA133B PRE-CALCULUS WITH TRIG B **FEE:** None

(10, 11, 12)

PREREQUISITE: Algebra Honors 2 and/or teacher recommendation

Pre-Calculus with Trigonometry focuses on six critical areas: (1) the complex number system; (2) arithmetic with polynomials and rational expressions; (3) operations with functions; (4) conic sections, (5) trigonomic functions; and (6) applications of trigonometry. These concepts and associated skills exceed the Colorado Academic Standards for mathematics, incorporating 21st Century skills and postsecondary and workforce readiness competencies.

MA149A PRE-CALCULUS WITH TRIG HONORS A **1 Year** **1 Honors Weighted Credit**
MA149B PRE-CALCULUS WITH TRIG HONORS B **3 Credit Hours per semester if opting for CU Credit**
(10, 11, 12) **FEE:** None

PREREQUISITE: Algebra Honors 2 and/or teacher recommendation

Honors Pre-Calculus with Trigonometry focuses on six critical areas: (1) the complex number system; (2) arithmetic with polynomials and rational expressions; (3) operations with functions; (4) conic sections, (5) trigonomic functions; and (6) applications of trigonometry. Students will have the opportunity to earn credit through the CU Succeed program for both semesters of this course. Students also have the opportunity to study sequences and series, vectors, limits, and derivatives as an introduction to calculus. First semester of the course will focus on the Algebraic Functions component of these subjects, which coincides with the College Algebra course offered at the University of Colorado at Denver and students can earn 3 semester hours towards their college degree. Second semester of the course will focus on the trigonometric component of these subjects which coincides with the College Trigonometry course offered at the University of Colorado at Denver and students can earn 3 semester hours towards their college degree.

MA170 FINITE MATHEMATICS **1 Semester** **.5 Credit**
(11, 12) **FEE:** None

PREREQUISITE: Algebra Honors 2 and/or teacher recommendation

Finite Math focuses on three critical areas: (1) sequences and series (extension from Algebra 2); (2) operations with matrices and determinants; and (3) operations with vectors. These concepts and associated skills are aligned with the Colorado Academic Standards for mathematics, incorporating 21st century skills and postsecondary and workforce readiness competencies.

MA500A AP CALCULUS A **1 Year** **1 AP Weighted Credit**
MA500B AP CALCULUS B **FEE:** None
(11, 12)

PREREQUISITE: Pre-Calculus with Trig Honors and/or teacher recommendation

AP Calculus a fast-paced, rigorous course designed to prepare students to take the A/B portion of the Advanced Placement test. It is designed as a college-level course. Students will be expected to spend 10-15 hours per week outside of class reading and staying up-to-date on the course materials. In this course, it is necessary for students to be self-motivated, highly disciplined, and responsible for their own learning. AP Calculus focuses on: limits, derivatives, and integrals of functions, volume of solids of revolutions, Fundamental Theorem of Calculus, Optimization of real world situations, and finding the area under and between curves.

MA520A AP STATISTICS A **1 Year** **1 AP Weighted Credit**
MA520B AP STATISTICS B **FEE:** None
(11, 12)

PREREQUISITE: Algebra Honors 2 and/or Pre-Calc with Trig Honors and/or teacher recommendation

AP Statistics involves an in-depth study of statistics. It is a fast-paced, rigorous course designed to prepare students to take the Advanced Placement test in Statistics. It is designed as a college-level course;. Students will be expected to spend 10-15 hours per week outside of class reading and staying up-to-date on the course materials. In this course it is necessary for students to be self-motivated, highly disciplined, and responsible for their own learning. AP Statistics focuses on: exploratory analysis, experimental design, probability and statistical inference.

Application Electives

MS162A STUDENT COUNCIL A **2 Semesters** **.5 Credit/Semester**
MS162B STUDENT COUNCIL B **FEE:** None
(09, 10, 11, 12)
PREREQUISITE: Application process

This course promotes the development of leadership and character building. Class activities are determined by the students. Students design, organize and conduct a variety of activities which may include team building, leadership lessons, school service projects, charity drives, homecoming events, school dances, pep rallies and other student activities. Class responsibilities include commitments outside of school hours for setting up for events and taking down after events. Students in student council need to be hard working. They also need to demonstrate leadership, initiative, productivity, positive attitudes, and have the ability to work cooperatively with others. They must demonstrate Falcon Spirit and Pride in all they do at Skyline High School.

LA426A NEWSPAPER A **1 Year** **1.0 Credit**
LA426B NEWSPAPER B **(Seniors may use .5 for English Credit)**
(09, 10, 11, 12) **FEE:** None
PREREQUISITE: Application process

This course will teach students of all grade levels professional writing and communication. Students will maintain an ongoing, on-line news organization centered around Skyline and the Longmont community. They will read from local, national and international model news organizations, study journalistic ethics and accepted practices, learn about organizational communication, bias, purpose and writing for a targeted audience. There will also be a component of news website design and maintenance.

LA429A YEARBOOK A **2 Semesters** **.5 Credit/Semester**
LA429B YEARBOOK B **FEE:** None
(10, 11, 12)
PREREQUISITE: Application & interview process, recommendation by two staff members.

Yearbook is designed for students interested in the production of the Skyline yearbook, Wingspread. Students are expected to be very self-motivated and must work together to become experts in their staff positions. Skills taught are organization, planning, layout, caption writing, photography, proofreading, and editing.

NOTE: Students must be able to work after school and possibly some Saturdays.

Music

Instrumental Music

MU104A CONCERT BAND A **1 Year** **1 Credit**
MU104B CONCERT BAND B **FEE:** $25.00
(09, 10, 11, 12)
PREREQUISITE: Previous band experience

Concert Band is a non-auditioned ensemble for students with previous instrumental experience. This band performs at numerous concerts, festivals, athletic events, and clinics throughout the year. This ensemble focuses on the development of comprehensive musicians. Concert Band combines with Symphonic Band and Percussion Ensemble to form the Skyline Pep Band.

MU105A JAZZ BAND A **1 Year** **1 Credit**
MU105B JAZZ BAND B **FEE:** $25.00
(09, 10, 11, 12)
PREREQUISITE: Audition and concurrent enrollment in a band class and/or Percussion Ensemble

This advanced course is open by audition to any student who plays an appropriate jazz instrument. Jazz Band provides an opportunity for students to continue instrumental development at an intermediate/advanced level. A high level of musicianship is expected. Jazz Band is an ensemble that will focus on performing many different styles of music such as rock, swing, Latin, bebop, and others. An emphasis on improvisation will be introduced, and the students will get ample opportunity to exercise those skills. There will be a mandatory three to five performances each year.

MU109A PERCUSSION ENSEMBLE A **1 Year** **1 Credit**
MU109B PERCUSSION ENSEMBLE B **FEE:** $25.00
(09, 10, 11, 12)

PREREQUISITE: Previous percussion or instrumental experience and the ability to read music

This course is open to any student that has previous experience playing a percussion instrument. Students are instructed in basic percussion technique, sight-reading skills, basic music theory, and performing solo music, chamber music, and large ensemble music. Since this course is designed to develop comprehensive percussionists, students will be given experiences playing all of the percussion instruments to include, but are not limited to: snare drum, bass drum, cymbals, timpani, mallets, and auxiliary instruments. There will be three to five mandatory performances each year. Students must provide their own snare drum sticks.

MU113A SYMPHONIC BAND A **1 Year** **1 Credit**
MU113B SYMPHONIC BAND B **FEE:** $25.00
(09, 10, 11, 12)

PREREQUISITE: Audition only

The Symphonic Band is the top concert band at Skyline High School. Symphonic Band represents a group of advanced musicians who perform a wide variety of high quality literature. This elite ensemble performs at numerous concerts, festivals, and clinics throughout the year. Symphonic Band combines with Concert Band and Percussion Ensemble to form the Skyline Pep Band. Students are expected to be proficient on their instruments and maintain a high level of commitment throughout the year.

MU131A STRING ORCHESTRA A **1 Year** **1 Credit**
MU131B STRING ORCHESTRA B **FEE:** $25.00
(09, 10, 11, 12)

PREREQUISITE: Previous orchestra experience

String Orchestra is for students who have prior experience on the violin, viola, cello, or string bass. String Orchestra will perform literature from all periods from traditional to contemporary. Students will be learning string skills and techniques needed to be ready to move into Symphony Orchestra. The string orchestra will perform at numerous concerts, festivals, and clinics throughout the year. This course may be repeated for additional credit.

MU132A SYMPHONIC ORCHESTRA A **1 Year** **1 Credit**
MU132B SYMPHONIC ORCHESTRA B **FEE:** $25.00
(09, 10, 11, 12)

PREREQUISITE: Audition only

Symphony orchestra is an advanced orchestra designed for students who would like to play more challenging orchestral music. The orchestra will perform both string and full orchestra literature of all periods from traditional to contemporary, combining with the Symphonic Band students. Like the String Orchestra, this ensemble will perform at numerous concerts, festivals, and clinics throughout the year. This course may be repeated for additional credit.

MU200 GUITAR 1 **1 Semester** **.5 Credit**
(9, 10, 11, 12) **FEE:** $20.00

PREREQUISITE: None

This is a beginner course in classical guitar technique. Students will learn to read music and play melodies and chords on acoustic guitar. Guitar 1 is an entry-level course designed to introduce rhythmic literacy, note reading, chord knowledge, and tablature. Students will perform in both solo and ensemble formats throughout the semester.

MU205 GUITAR 2 **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $20.00

PREREQUISITE: Guitar 1 or Instructor Approval

Guitar II is a course designed for students who wish to continue their guitar studies into higher concepts. Students who take this class will explore power chords, bar chords, advanced finger-picking, improvisation, and song writing.

MU206 BEGINNING PIANO **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $10.00

PREREQUISITE: None

This course is designed for the student who wishes to acquire basic piano skills. The course will introduce and reinforce the concepts of piano performance and beginning music reading, music theory, technique and composition.

MU207 ADVANCED PIANO II **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** $20.00

PREREQUISITE: Successful completion of Beginning Piano and/or teacher approval

This course is designed for the student who wishes to continue their piano studies into more advanced skills and repertoire. Students will learn intermediate and advanced piano techniques (scales, fingering exercises, multi-hand coordination, etc) and continue the study of music theory, sight-reading, and ear training in the context of the piano.

Vocal Music

MU150A ACAPPELLA/JAZZ CHOIR A (Alpine Jazz) **1 Year** **1 Credit**
MU150B ACAPPELLA/JAZZ CHOIR B (Alpine Jazz) **FEE:** None

(11, 12)

PREREQUISITE: Audition only, membership in Allegro Singers

Alpine Jazz Choir is a 14-16 member jazz choir consisting of Skyline's strongest vocalists. This ensemble focuses on more contemporary music, including (but not limited to) jazz, show-tunes, pop, and contemporary Acappella. They perform in a minimum of four concerts a year, as well as additional community and school functions. Membership is audition-based and a year-long commitment.

MU151A ALLEGRO SINGERS A (Honors by Teacher recommendation only)

MU151B ALLEGRO SINGERS B (Honors by Teacher recommendation only)

(10, 11, 12) **1 Year** **1 Credit**

PREREQUISITE: Audition only **FEE:** $60 for Choir

(Fundraising opportunities available)

Allegro Singers is an advanced mixed choral ensemble consisting of Skyline's most experienced, dedicated, and committed upperclassmen vocalists. They perform in a minimum of four concerts a year, as well as additional community and school functions. They will further develop their musical skills and knowledge, with a direct focus on vocal technique and music literacy. Students will work with a wide variety of music from different cultures and time periods. Membership is audition based and a year-long commitment.

MU152 BEL CANTO (Voice Performance Class) **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** $10.00

PREREQUISITE: Previous musical experience (co-curricular choir encouraged)

This class will focus on the study and beautification of the human voice, with emphasis placed on the physiology of the human voice, application of various vocal styles and performance practices, music theory, and musical terms. Students will perform solos in front of the class regularly and will build up a collection of solo music in different styles, languages, and time periods. The atmosphere will be one of open forum, emphasizing self-evaluation as well as group critique.

MU156A CONCERT CHOIR A **1 Semester or Year** **.5 Credit/Semester**
MU156B CONCERT CHOIR B **FEE:** $60.00 for Uniform
(09, 10, 11, 12) (Fund Raising Opportunities Available)

PREREQUISITE: None

Concert Choir is an entry-level mixed gender choral ensemble designed to develop musicianship skills and vocal technique. They perform in a minimum of four concerts a year (two each semester). Focus will be placed on basic musical skills and music literacy. Students will learn a wide variety of music from different cultures and time periods. Participation and development of singing skills will be emphasized in daily rehearsals.

MU158A FALCONNAIRES A **1 Year** **1 Credit**

MU158B FALCONNAIRES B **FEE**: $60.00 for Uniform

(09, 10, 11, 12) (Fundraising Opportunities Available)

PREREQUISITE: Audition only

Falconnaires is an intermediate women's choral ensemble designed to further develop the female voice while expanding on choral skills, such as tone, blend, musicality, and music theory. They perform in a minimum of four concerts a year. Falconnaires members are dedicated to singing and possess some past sight singing and music reading skills. Students will work with a wide variety of music from different cultures and time periods. Membership is audition based and a year-long commitment.

MU159A MEN'S CHOIR A **1 Year** **1 Credit**

MU159B MEN'S CHOIR B **FEE:** $35.00 for Uniform

(09, 10, 11, 12) (Fundraising Opportunities Available)

PREREQUISITE: Audition only

Men's Choir is an intermediate men's choral ensemble designed to further develop the male voice while expanding on choral skills, such as tone, blend, musicality, and music theory. They perform in a minimum of four concerts a year. Men's Choir members are dedicated to singing and possess some past sight singing and music reading skills. Students will work with a wide variety of music from different cultures and time periods. Membership is audition based and a year-long commitment.

Miscellaneous Music Electives

MU215 MUSIC TECHNOLOGY **1 Semester** **.5 Credit**

(10, 11, 12) **FEE:** $20.00

PREREQUISITE: Recommended that students have basic music skills, and have taken one year of piano, guitar or a year in an instrumental or vocal ensemble.

This course is designed to teach students the art of sound recording and audio production. Students will create a variety of projects including commercials, podcasts, original music compositions, song recording, and an introduction to Foley work. Students will work with top of the line software (Garage Band '11, Audacity, Sibelius 6.0, iTunes, and Google Docs) and hardware (various microphones, digital audio interfaces, mixing consoles, headphones & speakers, etc.) to create original awe-inspiring artistic and commercial audio projects as novice sound engineers and producers.

MU220 MUSICAL THEATER **1 Semester** **.5 Credit**

(11, 12) **FEE:** None

PREREQUISITE: Teacher approval, successful completion of Drama 1, .5 choir credit, or Dance 1

This ADVANCED course is designed to provide the performing arts student an overview of American musical theatre history from the Broadway stage beginning in the late 19th century to present. Studies include show and script analysis and the integration and development of characterization, dance and performance skills. Students will apply all three disciplines of acting, dancing and singing into performance-based assessments. Students will improve their auditioning techniques for the musical theatre through daily practice and performance. Upon completion, students are expected to leave with a working portfolio containing a resume, head-shot, and repertoire of contrasting musical theatre pieces.

MU225 MUSIC THEORY **1 Semester** **.5 Credit**

(10, 11, 12) **FEE:** None

PREREQUISITE: .5 credit in any choir, band, orchestra, piano, or guitar class

This class is for the student who wishes to learn how to read, understand, and perform tonal music. We will discuss pitch, rhythm, melody, harmony, dynamics, articulation, tempo, key and time signatures, solfege, and a variety of other fundamental elements. The goal for this class is to obtain a better ear and intellect for music.

MU500A AP MUSIC THEORY A **1 Year** **1 AP Weighted Credit**
MU500B AP MUSIC THEORY B **FEE:** $20.00
(10, 11, 12)
PREREQUISITE: Teacher recommendation

This Advanced Placement music theory course is for experienced musicians who wish to continue their studies from basic music theory. In-depth instruction will be given regarding topics of music notation, scales, tonality, form, harmonic analysis, part-writing, composition, and ear-training. This course prepares students for the Advanced Placement exam in May.

Physical Education Flowchart of Courses

9th Grade:
(Requirements)

- Health

9th – 12th Grade:
(P.E. Electives)

- Dance I
- Invasion & Field
- Ironworks I & II
- Life Fitness
- Net & Target
- Recreaational Games
- Swimming I & II

10th - 12th Grade:
(P.E. Electives)

- Dance II & III
- Ironworks III

11th – 12th Grade:
(Sports Theory Electives)

- Athletic Training & First Aid
- Coaching & Officiating
- Sports Marketing

** In order to fulfill SVVSD graduation requirements, students are required to take four (4) semesters or two (2) credits of P.E. and one (1) semester of Health.*

** Only one (1) credit or two (2) semesters of Sports Theory courses may be taken to meet the P.E. credit requirement. Any additional Sports Theory courses may be taken as elective credit.*

Physical Education

H100 HEALTH **1 Semester** **.5 Credit**
(09) **FEE:** None
PREREQUISITE: None; however, this class is required for graduation

This course is designed to provide essential learning in the areas of health. The expectation is that the course work will help in making informed decisions in regards to behaviors that affect various aspects of health and well-being. The major unit topics to be covered include Physical and Mental Wellness, Understanding Sexuality (as outlined by Board of Education Policy), Destructive Behaviors and Addictions, and Safety and Well-Being.

PE101 FITNESS 1: LIFE FITNESS **1 Semester** **.5 Credit**
(09, 10, 11, 12) **FEE:** None
PREREQUISITE: None

This class is designed for students who want to explore of variety of basic options for improving and maintaining their individual fitness levels. The goal is to give students both the knowledge and physical skills to develop and continue good lifetime fitness habits. Each student will develop and execute personal fitness plans and goals. Activities may include: power walking, aerobics, circuit training, and weight training. Students will also participate in speed and agility training, plyometrics and related fitness activities.

PE108 IRONWORKS I **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

This is an introductory-level course designed to familiarize students with weight room procedures, safety precautions, and various lifting techniques. This course may include; strength training, plyometrics, speed and agility training, and fitness activities. Emphasis will be on bench, squat, power clean, and the associated auxiliary exercises.

PE109 IRONWORKS II **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: Ironworks I or teacher approval

This is an intermediate-level course designed to engage students in more advanced weight lifting techniques. It will include emphasis on bench, squat and power clean and the associated auxiliary exercises, along with basic Olympic-style lifts and exercises. Students will also participate in speed and agility training, plyometrics and fitness activities.

PE113 INVASION & FIELD **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

This course is designed for the student to experience a wide variety of sports. These sports include, but are not limited to: ultimate frisbee, floor hockey, flag football, soccer, volleyball, speedball, basketball and softball. Students will also participate in speed and agility training, plyometrics, fitness activities, and sports related conditioning.

PE114 NET & TARGET **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

This class will include sport/activities where a net, or a target, is used, and scoring is accomplished for your own territory. The students will be expected to know basic rules and strategies, boundaries, and player positions. Activities may include; badminton, tennis, volleyball, disc golf and ultimate Frisbee. Students will also participate in speed and agility training, plyometrics, fitness activities, and sports related conditioning.

PE118 SWIMMING I **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

Swimming I is designed for the beginning and non-swimmers. Emphasis is based on learning different strokes from elementary through competitive, conditioning, interval training and breath control. Activities may include; survival swimming, diving, water safety and lifeguard training.

** All Swimming classes will be held at Centennial Pool. Students must walk to the pool.*

PE132 DANCE I **1 Semester** **.5 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

In this course the student will be graded on participation, presentation, written assessment and performance. The focus is on experiencing physical fitness through a wide range of fundamental dance skills including, but not limited to Hip-Hop, Funk, Jazz, Aerobic, Kickboxing, Salsa and other various styles of dance and fitness. Using these techniques, the student will improve their strength, cardiovascular endurance and flexibility, enhancing their overall knowledge of body awareness and health.

PE133 DANCE II **1 Semester** **.5 Credit**

(10, 11, 12) **FEE:** None

PREREQUISITE: Dance I

In this course the student will be graded on participation, presentation, written assessment and performance. The student will learn advanced fitness and dance techniques. This will include choreography and performance, dance Kinesiology, dance and fitness history and vocabulary. Using these techniques, the student will improve their strength, cardiovascular endurance and flexibility enhancing their over-all knowledge of body awareness and health.

PE134 DANCE III **1 Semester** **.5 Credit**

(10, 11, 12) **FEE:** None

PREREQUISITE: Successful completion of Dance II

Dance III is designed for students who have successfully completed the Dance I and Dance II courses and have an interest in pursuing the field of dance/fitness beyond graduation. More emphasis will be placed on student driven personal goals and projects using perception, creative expression/performance, historical and cultural heritage and response/evaluation. Activities may include; genres of fitness, specific genres of dance performance, instruction, choreography and community outreach projects.

PE136 ATHLETIC TRAINING & FIRST AID **1 Semester** **.5 Credit**

(11, 12) **FEE:** $10.00

PREREQUISITE: Successful completion of any P.E. course or teacher's approval

This course introduces clinical approaches to the prevention and treatment of injuries common to active lifestyles, including acute and overuse injuries. This class is designed to give a general overview of all aspects of athletic training and general anatomy. This course will also provide the student with a laboratory and internship experience. This experience is designed to expose the student to the practice of athletic training and other sports medicine careers. Standard first aid and CPR training will be covered and upon completion a first aid/CPR card will be awarded.

**Students must be able to provide transportation to and from sight location. Proof of automobile insurance must be provided. A written release of liability must be completed by student and parent to allow student travel.*

PE137 COACHING AND OFFICIATING **1 Semester** **.5 Credit**

(11, 12) **FEE:** $10.00

PREREQUISITE: Teacher's approval only. See counselors

This course is designed for the student leader interested in pursuing coaching and officiating job opportunities. Course content focuses on sport rules and guidelines, training techniques, leadership skills and sport specific fitness skills. Students will learn and perform the skills necessary to coach and officiate a variety of team and individual sports. These sports may include basketball, football, soccer, and softball. Students will also participate in speed and agility training, plyometrics, fitness activities and sports related conditioning.

PE138 SPORTS MARKETING **1 Semester** **.5 Credit**

(11, 12) **FEE:** None

PREREQUISITE: Successful completion of any PE course or teacher's approval

This course is designed to provide the student with an overview of the major marketing and sponsorship issues facing the sports industry. Course content focuses on the development, application marketing plans and sponsorship proposals. The student will be required to demonstrate an understanding of the material by completing several applied projects which may include; developing products and sponsorships, fundraising, public relations, marketing research, special events, and media.

**Students must be able to provide transportation to and from sight location. Proof of automobile insurance must be provided and written release of liability must be completed by student and parent.*

P.E. Waiver:

Graduation Requirements-Physical Education Waiver

The St. Vrain Valley School District requires all students to complete two (2) physical education credits to graduate. However, students have the opportunity to waive up to 1.0 physical education credit.

Students who maintain full-time student status during all four years of high school and meet all other graduation requirements may waive a .5 physical education credit by successfully completing one of the following criteria:

- One (1) St. Vrain Valley School District athletic programs at the high school level; or
- 72 hours during an 18-week period of an appropriate, pre-approved, structured, and supervised physical activity outside of the school district.

Successfully completing two different sports, the same sport for two seasons, or a combination of the above criteria will allow students to waive a maximum of 1.0 physical education credit. The activities to waive physical education credit may be met during any of a student's four years of high school.

Schools will provide information regarding the physical education waiver to students and parents annually during course registration to allow time for planning.

The physical education waiver application may be acquired in the counseling offices of every high school. Once the physical education waiver requirements have been met, the student will submit the application and time log to the building principal (including all required signatures) for verification and approval.

Whether or not a student has received a physical education waiver, all students are still required to successfully complete 24.5 credits in order to earn their high school diploma.

File: IKF-R

Adopted May 11, 2011
Revised: November 13, 2013
Revised February 25, 2015
Reviewed: October 28, 2015

Science Flowchart of Courses

Science Electives:

*** It is the expectation that all students take Biology, Chemistry and Physics before Science Electives.**

** Must have successfully completed Biology or Honors Biology before taking the following courses*

**Chemistry	**Physics	Astronomy
**Honors Chemistry	**AP Physics	Forensic Science
**AP Chemistry	**AP Physics-Calc Based	Geology

* **Classes are strongly recommended for college bound students.*

Science

SC120A BIOLOGY A **1 Year** **1 Credit**
SC120B BIOLOGY B **FEE:** None
(09)
PREREQUISITE: None

This course includes the following topics: cellular biology, patterns of inheritance, natural selection, ecology, diversity of life, classification, and human systems. Students will design, conduct, evaluate, and communicate about a scientific investigation. Students will perform inquiry-based investigations and dissections in this course.

SC121A BIOLOGY HONORS A **1 Year** **1 Honors Weighted Credit**
SC121B BIOLOGY HONORS B **FEE:** None
(09)
PREREQUISITE: Teacher Recommendation

This academically rigorous class is designed for students who desire a rigorous and challenging study of Biological Science. This course includes the following topics: molecules and cells, patterns of inheritance, natural selection, ecology, diversity of life, classification, and human systems. Students will design, conduct, evaluate, and communicate about scientific investigations. This laboratory science class presents the student with opportunities for exploratory, open-ended scientific investigations. Students will perform inquiry based investigations and dissections in this course.

SC130A CHEMISTRY A **1 Year** **1 Credit**
SC130B CHEMISTRY B **FEE:** None
(10, 11, 12)
PREREQUISITE: Biology and Algebra 1

Chemistry is a laboratory science designed for college bound students in non-science related careers. Students will qualitatively explore various topics including: Properties of Matter, Atomic Structure, The Periodic Table, Bonding, Stoichiometry, Reaction Rates, Gases, Solutions, and Acids and Bases. Students will conduct inquiry based labs throughout the course.

SC131A CHEMISTRY HONORS A **1 Year** **1 Honors Weighted Credit**
SC131B CHEMISTRY HONORS B **FEE:** None
(10, 11, 12)
PREREQUISITE: Biology and Algebra 1

Honors Chemistry is a laboratory science designed for college bound students in science related careers. In this laboratory science course students study matter, change and energy, scientific measurement, problem solving and atomic structure.

SC140A PHYSICS A **1 Year** **1 Credit**
SC140B PHYSICS B **FEE:** None
(11, 12)
PREREQUISITE: Biology, Chemistry and Geometry

Physics is designed to provide students with an understanding of the laws and principles that govern the physical world. It includes a quantitative study of the following topics: mechanics, dynamics, waves, optics, electromagnetism, and atomic and nuclear physics. The focus of this course will be the application of Physics to explain and evaluate everyday occurrences. Students will perform inquiry-based investigations in this course.

SC510A AP BIOLOGY A **1 Year** **1.5 AP Weighted Credit**
SC510B AP BIOLOGY B **FEE:** $25.00
SC510C AP BIOLOGY C
(10, 11, 12)
PREREQUISITE: Biology (Chemistry is recommended), teacher recommendation

AP. Biology is a fast-paced, rigorous course in which students will explore a comprehensive study of the 8 major themes in Biology. It is designed as a college-level course. Students will be expected to spend 10-15 hours per week outside of class reading and staying up-to-date on the lecture materials. In this course, it is necessary for students to be self-motivated, highly disciplined, and responsible for their own learning. This course provides students with the opportunity to create and design many computer-based laboratory experiments as well as participate in many other hands-on activities. In addition, students will be exposed to advanced college-level laboratory techniques such as DNA extraction, gel electrophoresis, and dissection of various animal specimens.

SC520A AP CHEMISTRY A **1 Year** **1.5 AP Weighted Credit**
SC520B AP CHEMISTRY B **FEE:** $25.00
SC520C AP CHEMISTRY C
(11, 12)
PREREQUISITE: Chemistry (Honors preferred) and Algebra 2

AP Chemistry is an elective laboratory science course intended for students with an interest in chemistry. This college-level course is the equivalent of two semesters of freshmen general chemistry; therefore the pace is fast. This course provides students with a fundamental understanding of matter and change, scientific measurements, atomic and molecular properties, molecular geometry and bonding, solution chemistry, properties of solutions, gas laws, acids and bases, chemical equilibrium, thermochemistry, electrochemistry, chemical kinetics, nuclear chemistry, and organic chemistry. The use of a hand-held scientific calculator is required. This course prepares students for the Chemistry Advanced Placement Examination.

SC532A AP PHYSICS 1A - ALG BASED A **1 Year** **1.0 AP Weighted Credit**
SC532B AP PHYSICS 1B - ALG BASED B **FEE:** $25.00
(10, 11, 12)
PREREQUISITE: Chemistry and Geometry

Physics 1 is the equivalent of a first-semester college course in algebra-based physics and is taught over a full academic year. This course covers Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, power, and mechanical waves and sound. It also introduces electric circuits. Students will develop a deep conceptual understanding of the content by focusing on applying their knowledge through inquiry-based labs, in-depth explorations of topics, and through the development and interpretation of conceptual models. Student investigators will foster engagement in the practices of science through experimenting, analyzing, making conjectures and arguments, and solving problems in a collaborative setting where students direct and monitor their progress. This course prepares students for success in subsequent college-level physics courses.

SC535A AP PHYSICS A - CALC BASED **1 Year** **1.5 AP Weighted Credit**
SC535B AP PHYSICS B - CALC BASED **FEE:** $25.00
SC535C AP PHYSICS C - CALC BASED
(11, 12)
CO-REQUISITE: AP Calculus

AP Physics Calculus Based is an advanced Physics course designed for students interested in pursuing engineering and other Physics related careers. The course is designed to prepare students to take both the AP Physics C Mechanics and the AP Physics C Electricity and Magnetism exams. Students will be expected to apply calculus based mathematical relationships to explain and predict physical occurrences. Students will conduct laboratory experiments throughout the course.

Science Electives

SC201 ASTRONOMY **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** None
PREREQUISITE: Chemistry

Astronomy is a course for students who are interested in the planets and the universe around us. Topics will include characteristics of the solar system, a study of the sun to better understand stars and their life cycles, the nature and origin of the universe, and the technology involved in discovering our universe. Nighttime observations and a planetarium field trip are required.

SC205 GEOLOGY **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** $10.00
PREREQUISITE: Chemistry

Geology is a course for students who are interested in how our planet works and it changes through time, using the local geology as a laboratory. Topics will include minerals, mining, rock formation, plate tectonics, and landscape formation. Lab study will include a field trip to Rocky Mountain National Park. Students will apply geologic processes to National Parks.

SC230 FORENSIC SCIENCE LAB BASED **1 Semester** **.5 Credit**
(10, 11, 12) **FEE:** $10.00
PREREQUISITE: Chemistry

Forensic Science is a laboratory-based science class designed for students who are interested in forensic science. The purpose of this course is for students to gain experience in the major investigative techniques currently used by forensic scientists and crime scene investigators, and to develop an understanding of the scientific concepts which serve as the basis for these techniques.

Social Studies Flowchart of Courses

9th Grade: *Honors World Geography/History or *AP Human Geography

10th Grade: *U.S. History or *AP U.S. History

11th Grade: *U.S./ Colorado Government or *AP U.S. Government & Politics or *AP U.S. History

** Required for graduation*

Social Studies Electives:

10th - 12th Grade: AP Human Geography | AP World History | Economics

11th - 12th Grade: AP U.S. Government & Politics | AP U.S. History | Psychology | Sociology

** In order to graduate from Skyline High School, students must complete a total of six (6) semesters or earn three (3) credits of Social Studies courses.*

Social Studies

SS111A WORLD GEOGRAPHY/HISTORY HONORS A **1 Year** **1 Honors Weighted Credit**
SS111B WORLD GEOGRAPHY/HISTORY HONORS B **FEE:** None
(09)
PREREQUISITE:
This course is designed for students who desire a rigorous, challenging, in-depth and accelerated study of Geography and World History. The intent is to increase the amount of material covered while improving students' written, spatial, and sequential skills. The course of study includes vocabulary, essay, and extemporaneous projects, as well as advanced reading, writing, and communications skills.

SS120A US HISTORY A **1 Year** **1 Credit**
SS120B US HISTORY B **FEE:** None
(10)
PREREQUISITE: None
U.S. History focuses on three critical areas: (1) the use of historical method of inquiry to ask questions, evaluate primary and secondary sources, critically analyze and interpret data, and develop interpretations defended by evidence; (2) the understanding of key concepts of continuity and change, cause and effect, complexity, unity, and diversity over time; and (3) the appreciation of the significance of ideas as powerful forces throughout history. Its intent is to help the students gain an understanding of the major political, economic and social events that have shaped the nation. The course emphasizes 20th Century United States history and the contemporary world. These concepts and associated skills are aligned with the Colorado Academic Standards for Social Studies, incorporating 21st Century skills and postsecondary and workforce readiness competencies.

SS130A US/CO GOVERNMENT A **1 Year** **1 Credit**
SS130B US/CO GOVERNMENT B **FEE:** None
(11)
PREREQUISITE: None
In US Government, instructional time should focus on four critical areas: (1) designing, analyzing and applying a financial plan based on short and long-term financial goals; (2) analyzing strategic spending, saving, and investment options to achieve the objectives of diversification, liquidity, income, and growth (PFL); (3) researching, formulating positions, and engaging in appropriate civic participation to address local, state, or national issues or policies; and (4) describing purposes, origins, structures and limitations of government and (5) analyzing how public policy – domestic and foreign – is developed at all levels. These concepts and associated skills are aligned with the Colorado Academic Standards for social studies, incorporating 21st Century skills and post secondary and workforce readiness competencies.

SS220 PSYCHOLOGY **1 Semester** **.5 Credit**

(12) **FEE:** None

PREREQUISITE: None

Psychology is a one semester course open to interested seniors. Topics studied will include stress management, right/left-brain activities, understanding the psychological state of self and others, learning, intelligence, memory, conflict management, and personality theory. Participation in verbal discussions is required; substantial reading is required.

SS235 SOCIOLOGY **1 Semester** **.5 Credit**

(12) **FEE:** None

PREREQUISITE: None

Sociology is the study of society with the major emphasis on cultures, social organizations, social processes, and social problems. A variety of teaching methods are used. Student papers and essay and objective assessments are part of the evaluation.

SS505A AP US GOVERNMENT/POLITICS A **1 Year** **1 AP Weighted Credit**
SS505B AP US GOVERNMENT/POLITICS B **FEE:** None

(11, 12)

PREREQUISITE: Teacher recommendation

This course will provide students with rigorous, critical and analytical study of the United States Government and its political processes, including the studies of the historical and constitutional framework of the U.S. Government, political parties and interest groups, Congress, the Presidency, the Judicial Branch as well as the media. This class is designed to prepare students for the College Board AP test in US Government & Politics. A fee is attached to the AP exam.

SS510A AP US HISTORY A **1 Year** **1 AP Weighted Credit**
SS510B AP US HISTORY B **FEE:** None

(10, 11, 12)

PREREQUISITE: Teacher recommendation

This course is designed for sophomores, juniors or seniors who have a good background in social studies and a strong interest in U.S. History. Students will be provided with the analytical skills and factual knowledge to deal critically with problems in the field. The course will help develop those skills necessary to arrive at conclusions on the basis of judgment and to present ideas clearly and persuasively in essay format. Substantial reading and writing are required. Evaluation will be based on objective and essay exams, formal research papers, and class discussion.

**This course can satisfy the U. S. History requirement as well as a Social Studies elective credit.*

SS515A AP WORLD HISTORY A **1 Year** **1 AP Weighted Credit**

SS515B AP WORLD HISTORY B **FEE**: None

(10, 11, 12)

PREREQUISITE: Teacher recommendation

This is an academic year-long course that traces the development of world history from the emergence of cities to the present focusing on the period after 1000 B.C. and emphasizes the analytical and writing skills necessary for success in a college-level history course. To this end, the course devotes considerable time to the critical evaluation of primary and secondary sources, analysis of historiography, oral presentations, short essays, research, and the development of a document-based question (DBQ). Objective exams, simulations, and integrated computer-technology will also be given.

SS535A AP HUMAN GEOGRAPHY A **1 Year** **1 AP Weighted Credit**

SS535B AP HUMAN GEOGRAPHY B **FEE:** None

(09, 10, 11, 12)

PREREQUISITE: Teacher recommendation

AP Human Geography is a rigorous year-long course that focuses on the distribution, processes, and effects of human populations on the planet. Units of study include population, migration, culture, language, religion, ethnicity, political geography, economic development, industry, agriculture, and urban geography. Emphasis is placed on geographic models and their applications.

Stage Technology

The classes which make up the Stage Technology series are part of the SVVSD Career and Technical Education Program. Classes are open to all students in the SVVSD. The program may be completed in two years, with the student earning 1.5 hours of Career and Technical Education Credit. The complete series must include one semester of Beginning Stage Technology, one semester of Intermediate Stage Technology, and one semesters of Advanced Stage Technology.

Special Considerations:

As a Career and Technical Education class, much of the learning is done "hands-on" in the style of an apprenticeship by working in the Vance Brand Civic Auditorium before, during, and after actual usage. Since most auditorium use occurs during the weekends and evenings, students should be prepared to provide their own transportation to VBCA outside of school hours for intermediate and advanced courses. Students should also be prepared to spend time in the auditorium outside the regular school day and week.

CTE9961 BASIC STAGE TECHNOLOGY **1 Semester** **.75 Credit**

(09, 10, 11, 12) **FEE:** None

PREREQUISITE: None

This is the first-level class in the Stage Technology Vocational Education series and may only be taken one time for credit. It is designed for students who are interested in the backstage elements of stage productions. The class focuses on terminology, history, safety, basic concepts, and the responsibilities of the theatre technician. Students successfully completing this class will be certified to operate follow spotlights and the VBCA fly system. Students successfully completing this class will be certified for basic operation of VBCA lighting and sound systems.

CTE9972 INTERMEDIATE STAGE TECHNOLOGY **1 Semester** **.75 Credit**

(10, 11, 12) **FEE:** None

PREREQUISITE: Successful completion of Basic Stage Tech and teacher approval

This second-level class in the Stage Technology Vocational Education series may be taken repeatedly for credit with instructor approval. This class focuses on set construction, theories of light, color, sound, basic electricity and electronics, basic theatre maintenance, and the application of this knowledge in the day-to-day operations of the VBCA. Students successfully completing this class will be certified for basic operation of VBCA lighting and sound systems.

CTE9981 ADVANCED STAGE TECHNOLOGY

(10, 11, 12) **1 Semester** **.75 Credit**

PREREQUISITE: Successful completion of Intermediate Stage Tech and teacher approval **FEE:** None

This third-level class in the Stage Technology Vocational Education series may be taken repeatedly for credit with instructor approval. This class focuses on advanced systems operations, advanced theatre maintenance, lighting, sound, and set design, stage management, and technical directions and applying for a job in Stage Technology or a related field, set construction, theories of light, color, sound, basic electricity and electronics, basic theatre maintenance, and the application of this knowledge in the day-to-day operations of the VBCA.

World Language

FRENCH

WL101A FRENCH 1A **1 Year** **1 Credit**
WL101B FRENCH 1B **FEE:** None
(09, 10, 11, 12)
PREREQUISITE: None

Welcome to the French speaking world. In this course, you will be introduced to the language and culture of France, as well as that of other Francophone nations. Areas of study will include communication skills (speaking, listening, reading, and writing). Using these skills, students will be able to interact with others as they learn about each other's families, activities, likes and dislikes, and will learn to order food in restaurants. Through film, song, reading, and discussion, students will begin to understand the French culture.

WL102A FRENCH 2A **1 Year** **1 Credit**
WL102B FRENCH 2B **FEE:** None
(09, 10, 11, 12)
PREREQUISITE: Successful completion of French 1 and teacher recommendation

As the study continues, knowledge of the French language and Francophone culture will expand and deepen. The everyday language used for survival skills will be expanded. The student's personal communication skills will allow for more meaningful conversations with others. The class will continue to work on many projects that will help showcase emerging language skills.

WL103A FRENCH 3A **1 Year** **1 Credit**
WL103B FRENCH 3B **FEE:** None
(10, 11, 12)
PREREQUISITE: Successful completion of French 2 and teacher recommendation

French 3 is a continuation of French 1 and 2 and builds upon the proficiencies acquired in those classes. Students will expand their knowledge of French grammar, giving them the ability to express more complex thoughts. They will continue to work on the areas of reading, writing, listening and, above all, speaking. Students will increase their vocabulary so that they are able to discuss and express opinions about a variety of subjects that affect them, their society and the world. Students will continue to learn about art, music, history and film from Francophone countries. This year, students will begin their exploration of French literature. Most courses will be conducted solely in French.

WL104A FRENCH 4A/WL500A AP FRENCH LANGUAGE **1 Year** **1 Credit**
WL104B FRENCH 4B/WL500B AP FRENCH LANGUAGE **FEE**: None
(11, 12)
PREREQUISITE: Successful completion of French 3 and teacher recommendation

This course is designed and taught in such a way as to provide students with an authentic atmosphere in which to acquire the French language. Building on the foundation of beginning level courses, the level 4/AP course will continue to use French exclusively as the language for instruction, communication and presentation. Emphasis is placed on improving students' listening, reading, speaking and writing skills. Activities will be formatted to help prepare students for the AP French exam while enhancing conversational skills within a cultural context. Oral presentations, group work, informal conversation, compositions and class discussions will help students enhance their language skills in French.

WL163A ITALIAN 3A **1 Year** **1 Credit**
WL163B ITALIAN 3B **FEE:** None
(11, 12)
PREREQUISITE: Successful completion of Italian 2 or teacher recommendation

Italian 3 expands on basic communication skills learned in Italian 2. Students will learn more everyday language and be able to hold more meaningful conversations with others. Skills will be acquired through in-class activities which include; conversations, reading, writing, games and role playing. Students will learn more about Italian culture and be able to demonstrate what they learn through presentations and projects.

WL164A ITALIAN 4A/AP **1 Year** **1 Credit**
WL164B ITALIAN 4B/AP **FEE:** None
(12)

PREREQUISITE: Successful completion of Italian 3 or teacher recommendation

Italian 4 offers students the opportunity to develop more advanced language skills by building on skills learned in the beginning level courses. Italian will be used exclusively for instruction, communication and presentation. Students will read authentic literature, study history and geography and master more complex grammar structures. Emphasis will be placed on improving students' listening, reading, speaking and writing proficiency. Level 4 could also be offered as an AP class, in which case it will prepare students for the AP exam.

MANDARIN CHINESE

WL141A MANDARIN CHINESE 1A **1 Year** **1 Credit**
WL141B MANDARIN CHINESE 1B **FEE:** None
(09, 10, 11, 12)

PREREQUISITE: None

The study of Chinese seeks to develop students' proficiency especially focusing on their listening, speaking and reading abilities. Through classroom activities; conversation practice, reading, story writing, role playing, singing, calligraphy, games, etc., students acquire the knowledge and skills to begin communicating in Mandarin Chinese. This knowledge on a variety of topics will apply to many different contexts. Students will also be introduced Chinese culture through media presentations and discussions.

WL142A MANDARIN CHINESE 2A **1 Year** **1 Credit**
WL142B MANDARIN CHINESE 2B **FEE:** None
(10, 11, 12)

PREREQUISITE: Successful completion of Chinese 1

Building on the content of Chinese 1, Chinese 2 aims to develop students' proficiency to a more advanced level. Students will continue to learn expanded topics through various classroom activities. Listening, speaking and reading abilities are still the main focus of this course. Students will be expected to express themselves in a narrative form at this level. Cultural introduction is incorporated into the curriculum and students will learn how to use Internet resources to explore the Chinese world.

WL143A MANDARIN CHINESE 3A **1 Year** **1 Credit**
WL143B MANDARIN CHINESE 3B **FEE:** None
(11, 12)

PREREQUISITE: Successful completion of Chinese 2

Chinese 3 continues student's learning, expanding topics through various classroom activities based on the prior two years. Four skills are emphasized: listening, speaking, reading and writing. These abilities are integrated to help students develop the Chinese language to a level of fluency. Students will be expected to become independent learners and explore related topics, contexts, conversations, culture, etc. through texts, Internet or other media.

WL144A MANDARIN CHINESE 4A **1 Year** **1 Credit**
WL144B MANDARIN CHINESE 4B **FEE:** None
(12)

PREREQUISITE: Successful completion of Chinese 3

Chinese 4 continues student's learning, expanding topics through various classroom activities based on the prior two years. Four skills are emphasized: listening, speaking, reading and writing. These abilities are integrated to help students develop the Chinese language to a level of fluency. Students will be expected to become independent learners and explore related topics, contexts, conversations, culture, etc. through texts, Internet or other media.

SPANISH

WL151A SPANISH 1A **1 Year** **1 Credit**
WL151B SPANISH 1B **FEE:** None
(09, 10, 11, 12)

PREREQUISITE: None

This course offers an introduction to the language and culture of the Spanish speaking world. Areas of study will include basic communication skills (listening, speaking, reading, writing) and culture. Using these skills, the student will be able to describe people and things, talk about likes and dislikes, order food, buy clothing, talk about weather, and much more. Students will also learn about Hispanic culture through readings, films, and other activities.

WL152A SPANISH 2A **1 Year** **1 Credit**
WL152B SPANISH 2B **FEE:** None
(09, 10, 11, 12)
PREREQUISITE: Successful completion of Spanish 1

This course continues to develop the five language learning components. Using more complex patterns of communication, the student will be able to talk about the past, tell stories, increase vocabulary and explore travel topics. Students will also learn about Hispanic culture through reading, films, music, and other activities.

WL153A SPANISH 3A **1 Year** **1 Credit**
WL153B SPANISH 3B **FEE:** None
(10, 11, 12)
PREREQUISITE: Successful completion of Spanish 2 and Teacher Recommendation

This course offers students the opportunity to synthesize the knowledge and skills students have acquired in the previous levels. Students can begin to express themselves in more sophisticated ways as well as to expand their understanding of the spoken and written language. Although speaking and listening skills are paramount, there is an increased emphasis on reading and writing.

WL154A SPANISH 4A **1 Year** **1 Credit**
WL154B SPANISH 4B **FEE:** None
(11, 12)
PREREQUISITE: Successful completion of Spanish 3 and teacher recommendation

This course offers students the opportunity to develop advanced language skills. Students will read authentic literature, study the history and geography, and master more complex grammar structures. Emphasis continues to be placed on the development of the student's ability to express him/herself and communicate effectively.

WL156A SPANISH FOR SPANISH SPEAKERS 1A **1 Year** **1 Credit**
WL156B SPANISH FOR SPANISH SPEAKERS 1B **FEE:** None
(09, 10, 11, 12)
PREREQUISITE: Teacher Recommendation

This course is designed for the student who already has a foundation of the Spanish language. Reading and writing will be the primary focus, with an extensive amount of time on grammar. The student will also study literature of the native language.

WL157A SPANISH FOR SPANISH SPEAKERS 2A **1 Year** **1 Credit**
WL157B SPANISH FOR SPANISH SPEAKERS 2B **FEE:** $10.00
(10, 11, 12)
PREREQUISITE: Teacher Recommendation

This course is designed for students who already speak, read and write fairly well in Spanish, but still need help with vocabulary, spelling and writing for specific purposes. We will continue the grammar overview which began in Spanish for Spanish Speakers 1. Particular attention will be given throughout the course to spelling, accent marks and expanding students' vocabulary beyond their particular region of origin. Students will also read about Hispanics from around the world that have gained fame from their literary achievements. As Spanish is a language spoken on several continents, students will learn to speak and write in standard Spanish.

WL510A ADVANCED PLACEMENT SPANISH LANGUAGE A **1 Year** **1 AP Weighted Credit**
WL510B ADVANCED PLACEMENT SPANISH LANGUAGE B **FEE:** $10.00
(11, 12)
PREREQUISITE: Spanish 4 or Spanish Language Fluency, Teacher Approval

This course provides the motivated student with a wide variety of opportunities to develop advanced Spanish language skills. While students are exposed to the literature, history, and culture of the Spanish-speaking world, emphasis is placed on developing proficiency in self-expression, communication, and critical thinking. Students will read a variety of short works or literary excerpts, listen to recorded stories, watch movies, participate in discussions, role play, tell stories, and demonstrate proficiency in writing. This course prepares students to take the Spanish Advanced Placement Examination. The exam, while not required, is strongly recommended.

** While taking a World Language is not a graduation requirement, three (3) consecutive years of a World Language is strongly recommended for college bound student*

Font Range Community College Course Descriptions

FRCC has a unique partnership with Skyline that allows junior and senior SHS students to take "Guaranteed Transfer" (GT) college classes on our campus. Students can earn up to one year of college credit. Courses are taught by FRCC professors and several qualified Skyline staff members. Classes are one semester in length.

PS511 FRC GIS 205 APPLICATIONS (3 Credits— 45 contact hours)
Develop competency in web based geospatial information technologies. This course introduces students to concepts and processes of software based geospatial services to deliver geospatial information over networks. The course provides a comprehensive discussion of theory and applied technology of GIS software information services as well as integration of geospatial services into GIS applications.

PS600 FRC COM 115—PUBLIC SPEAKING (3 Credits—45 contact hours)
This course combines the basic theory of speech communication with public speech performance skills. Emphasis is on speech delivery, preparation, organization, support, and audience analysis.

PS605 FRC ENG 121—ENGLISH COMPOSITION I* (3 Credits—45 contact hours)
PREREQUISTE: Appropriate writing diagnostic scores required.
Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/ argumentative writing. This course is one of the statewide Guaranteed Transfer courses.

PS606 FRC ENG 122—ENGLISH COMPOSITION II* (3 Credits—45 contact hours)
PREREQUISTE: ENG 121 with a grade of "C" or better.
Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. This course is one of the statewide Guaranteed Transfer courses.

PS620 FRC LIT 115—INTRODUCTION TO LITERATURE 1* (3 Credits—45 contact hours)
Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading.

PS780 FRC CRJ 110 INTRODUCTION TO CRIMINAL JUSTICE (3 Credits—45 contact hours)
Introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component relations and checks and balances.

PS785 FRC ECO 201 PRINCIPLES OF MACROECONOMICS (3 Credits—45 contact hours)
RECOMMENDED PREPARATION: ECO 202 PRINCIPLES OF MICROECONOMICS
Focuses on the study of the American economy, stressing the interratlationships among the household, business, and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal REserve System, money and banking, and international trade.

PS786 FRC ECO 202 PRINCIPLES OF MICROECONOMICS (3 Credits—45 contact hours)
Focuses on the consumer, the firm, the nature of cost, and how these relate to the economy as a whole. Analyzes economic models of the consumer, perfect competition, monopoly, iligopoly and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic inter-dependence.

PS825 FRC PSY 101—GENERAL PSYCHOLOGY I *(3 Credits—45 contact hours)
This course focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping,,research methods consciousness, sensation, perception, learning, and memory.

PS82 FRC PSY 102—GENERAL PSYCHOLOGY II* (3 Credits—45 contact hours)
RECOMMENDED PREPERATION: PSY 101.
This course focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development and social psychology.