Skyline High School Educates students in a safe and empowering environment. Our mission is to challenge students to achieve the highest levels of academic success so they may thrive in an increasingly diverse and complex world. We have a strong emphasis on STEM (Science, Technology, Engineering and Math) within our curriculum where students are introduced to advanced technology and equipment along with collaboration and leadership skills. All students have access to a full continuum of rigorous academic course offerings and a diverse selection of co-curricular activities. Students can also participate in the school’s three focus offerings: STEM Academy, Visual and Performing Arts Academy or FalconTech, the district’s first P-TECH (Pathways in Technology Early College High School) school.

District Overview

St. Vrain Valley Schools is the educational home of more than 32,000 of Colorado’s students. St. Vrain Valley is the seventh largest school district in the state and operates 57 schools and programs that are spread over 411 square miles serving 13 geographically diverse communities. All traditional schools in St. Vrain are accredited at the two highest levels with some of the most rigorous graduation requirements in Colorado. St. Vrain Valley Schools is preparing students for the future by giving them a strong competitive advantage that will empower their success in a complex, globalized economy. The district offers 70 Instructional Focus Programs including: Energy, STEM, Engineering and Aerospace, Medical and BioScience, International Baccalaureate, and Leadership.

Student Achievement

- The SAT composite score for Skyline High School 2018-2019 seniors was 910.
- 123 students took 325 Front Range Community College courses in 2018-2019.
- 515 AP exams were administered in 2018-2019.
- The Skyline High School student AP pass rate is equivalent to global AP pass rate.
- Skyline High School students have received state and national recognition, including Boettcher Scholarships, Daniels Fund Scholarships, and National Merit Scholarship semi-finalists.
- Over 59% of SHS students participate in arts, activities and/or athletics.
- The first two cohorts of FalconTech students have earned over 2,400 college credits thus far.
- University of Colorado College of Engineering guaranteed admissions agreement for qualified STEM graduates.
- Home of St. Vrain’s STEM (Science, Technology, Engineering and Math) and VPA (Visual and Performing Arts) academies with nearly 400 accepted students.

St. Vrain Valley Schools Academic Excellence by Design

Skyline High School Profile August 2019

Advanced Placement (AP): 24 weighted grade courses
Concurrent Enrollment Options: Front Range Community College
Honors Courses: Offered throughout 9th and 10th grade
FalconTech: In partnership with IBM and Front Range Community College, students have the opportunity to earn an Associate of Applied Science in Computer Information Systems at no cost to the student, concurrently with a high school diploma.
Graduation Requirements

24.5 TOTAL CREDITS REQUIRED
AMONG THE MOST RIGOROUS
IN COLORADO

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
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<tr>
<td>Electives</td>
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</table>

College Preparatory Curriculum

The following courses are offered at Skyline High School. Specific Traditional, Honors, and Advanced Placement (AP) classes are listed in separate columns. AP courses are considered the most difficult courses available for each subject area in which they are offered.

### Transcript Notations

- Includes both unweighted and weighted cumulative GPA
- Rank in class is determined by students’ cumulative GPA, which includes classes taken at the college level. Every grade, except P and S, in grades 9-12 is used in calculating rank.
- A (TR) indicates credit transferred from another institution
- A (PS) indicates a dual credit college course taken through concurrent enrollment with University of Colorado-Boulder, e.g. CU Gen. Psych or Front Range Community College, e.g. FRCC English 121.

- Weighted grades are earned in courses designated as Honors or Advanced Placement using the following grading scale:
  - UNWEIGHTED: A 4.0, B 3.0, C 2.0, D 1.0, F 0.0
  - HONORS: A 4.5, B 3.5, C 2.5, D 1.5, F 0.0
  - ADVANCED: A 5.0, B 4.0, C 3.0, D 2.0, F 0.0

### Traditional Offerings

**ENGLISH**
- English 9
- English 10
- English 11
- English 12

**SOCIAL STUDIES**
- U.S. History
- U.S./CO Government
- Psychology
- Sociology
- Personal Financial Literacy

**MATHEMATICS**
- Algebra 1
- Geometry
- Intermediate Algebra
- Algebra 2
- Finite Math
- Statistics
- Trigonometry

**SCIENCE (ALL LAB BASED)**
- Biology
- Chemistry
- Astronomy
- Forensic Science
- Physics
- Anatomy & Physiology
- Geology

**WORLD LANGUAGES**
- Spanish 1-4
- Spanish for Spanish Speakers 1, 2
- French 1-4

### Honors & Advanced Placement

**ENGLISH**
- Honors English 9
- Honors English 10
- AP English Language
- AP English Literature
- AP Seminar
- AP Research

**SOCIAL STUDIES**
- Honors World Geography
- AP Human Geography
- AP U.S. Government
- AP U.S. History
- AP Psychology
- AP MicroEconomics
- AP Macroeconomics

**MATHEMATICS**
- Honors Geometry
- Honors Algebra 2
- Honors Trig/Pre-Calculus
- AP Calculus AB
- AP Statistics

**SCIENCE (ALL LAB BASED)**
- Honors Biology
- Honors Chemistry
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics 1/Algebra Based
- AP Physics/Calculus Based

**ARTS**
- Web Design 1
- AP Music Theory
- AP Studio Art Drawing
- AP 2D Studio Art - 2D Design
- AP 2D Studio Art - 3D Design

**WORLD LANGUAGES**
- AP Spanish
- AP French

**PRACTICAL ARTS**
- AP Computer Science Principles

Focus Program Offerings

**STEM/COMPUTER SCIENCE**
- Explorations in STEM
- Creative Engineering
- Advanced Engineering
- Robotics
- Senior Design
- Tech Squad
- Computer Technician I + II
- Introduction to Computing
- Apple Certified Mac and iOS Tech
- Computer Science A+H
- Introduction to Programming - CSC 119
- Object Oriented Programming
- Web Editing Tools: Dreamweaver
- Client Side Scripting: Software
- Web Design 1
- English Composition 1
- U.S. History Since the Civil War
- College Algebra
- Introduction to Business
- Corporate Ethics and Social Responsibility

**FALCON TECH**
- Introduction to PC Applications
- Complete PC Word Processing: Word
- Complete PC Database: Access
- PC Spreadsheet Concepts: Excel
- Introduction to SQL
- Systems Analysis and Design 1
- Computer Science 1+2
- Complete Web Authoring
- Web Application Development
- Linux Configuration: GS
- C++ Programming
- Advanced Java Programming
- Internship
- Beginning/Intermediate Stage Technology
- Musical Theater

**VISUAL AND PERFORMING ARTS**
- Bel Canto
- Beginning/Advanced Piano
- Beginning/Advanced Guitar
- Alpine Jazz
- Concert Choir
- Percussion Ensemble
- Mariachi Ensemble
- Dance I, II and III
- Drama/Advanced Drama
- Beginning/Intermediate Stage Technology
- Musical Theater

Focus Program Offerings

- 24 Advanced Placement classes and AP Capstone.
- World languages in Mandarin, French and Spanish.
- FalconTech students graduate in four to six years with a high school diploma from St. Vrain Valley Schools and an Associate of Applied Science degree from Front Range Community College. Students also receive mentorships and internships from IBM and are sought after during job interviews with IBM upon graduation. The AAS degree is at no cost to the students.
- Career Development Center: Internship opportunities and certification programs are offered at this district hands-on learning center.
- Strong business partnerships throughout the community provide resources, expertise and opportunities for students.
- Skyline partners with the district’s Innovation Center where students can work on research and development projects that will prepare them for future careers in STEM.

Technology Focus

- All students have access to personal iPads.
- Courses offered with technology focus include Introduction to Programming, Introduction to Computing, Computer Science and AP Computer Science Principles.
- FalconTech students can choose classes in Computer Information Systems, Programming, and/or Web Development.
- Students have access to a laser printer, two 3D printers, Makerspace in the library, Tech Squad participation, and Apple Certification classes at the Innovation Center.