

Centaurus High School Vision

Our vision of a proud Centaurus Warrior community includes:

Students who demonstrate HEART: Honor, Empathy, Achievement, Respect, and Triumph.

Faculty and staff who provide an enriching, progressive, viable curriculum, and safe environment that equitably meet diverse student needs.



Graduation Requirements & Grading System

The Boulder Valley School District requires a minimum of 220 credits be earned in grades

9-12. The following credits must be earned in the areas listed below:

Language Arts	40 credits	Physical Education	15 credits
10 credits in Freshman Language Arts		Health	5 credits
10 credits in World Literature & Composition		Fine Arts	5 credits
10 credits in American Literature & Composition		Music, Art	
5 credits in Communications		Practical Arts	5 credits
5 credits in Language Arts Elective		Boulder TEC, Computer, Business, Consumer & Family Studies	
Social Studies	30 credits	Approved Electives	70 credits
5 credits in U.S. Government			
5 credits in World Geography		TOTAL CREDITS:	220 credits
10 credits in U.S. History		Additional Requirements	
10 credits in World History		Computer & Applied Technology	
Math (incl. Algebra 1)	20 credits	Personal Money Management	
Science	20 credits		
(10 life, 10 earth)			
World Language	10 credits		
(level 2 or higher)			

Grading System

Letter grades are used to indicate grades with grade points awarded to each letter as follows:

Regular GPA	Weighted GPA
A = 4 points	5 points
B = 3 points	4 points
C = 2 points	3 points
D = 1 point	2 points
F = 0 points	

I=incomplete
P/F=class being taken on pass/fail basis
WP=withdraw passing (not factored into GPA)
WF=withdraw failing (not factored into GPA)

Beginning in 2010 the Boulder Valley School District discontinued using class rank. Class rank is no longer calculated on transcripts and is not available for students to report on college applications.

Centaurus High School Mission

Our mission is to foster educated, engaged, empowered, and compassionate participants in a global society.



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Registrar/Records

Lucy Nash

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Marla Joy Leonard

Centaurus High School

High School Profile 2020-2021

- Centaurus High School offers a public comprehensive education for grades 9-12 with a staff of 75 and enrollment of approximately 1490 students.
- The 2019-2020 figures show 296 graduates, with 251 total students (84.7%) planning to enroll in higher education institutions—two or four year colleges or universities. Of those college bound students:
 - 211 graduates (71.28%) are attending four year colleges or universities
 - 40 graduates (13.5%) are attending two year community and/or junior colleges
- In the Spring of 2020 due to the ongoing COVID-19 pandemic, students in the class of 2021 were unable to take the SAT as originally planned. Students were given an opportunity to take the SAT test in the fall of 2020 so that they can provide a score to colleges and universities. Many students in our school community were unable to attend on this makeup test administration. The most recent information we have for our SAT scores comes from the Spring of 2019 for the class of 2020. In April of 2019, 222 11th graders at CHS took the SAT test. The mean score for Centaurus High School was 1069, the mean score for Boulder Valley School District was 1132, and the mean score for the state of Colorado was 1000.
- The College Board and ACT code number is 060-865.
- The Centaurus High School student ethnic mix is 1% African-American, 61% Caucasian, 30% Hispanic, .13% American Indian, 3.3% Asian, and 5% of students identify with 2 or more races.
- Approximately 31% of the student population at Centaurus is economically disadvantaged, qualifying for the Federal free and Reduced Lunch Program.
- Centaurus High School hosts the district Newcomers Program. This program is for emerging bilingual language learners new to the United States in the last year. There are currently 35 students enrolled.
- From 2017-2020 the school year has consisted of 2 semesters, 18 weeks each, with an 8 period day and a modified block schedule two days a week.
- Currently, in the 2020-2021 school year, students are taking classes quarterly in 8 week blocks, 4 courses at a time. Through the first fall quarter of the 2020 school year, all students have been engaged in their coursework remotely.

The Community and Students:

Lafayette is a growing community located in the rolling hills of Colorado's Front Range; 11 miles east of Boulder and 20 miles north of Denver. Boulder County is noted as a university and research center with several large corporations and many high tech industries in the vicinity. The Boulder Valley School District encompasses 752 square miles of Boulder County including mountain, urban, and plains areas. The median household income in Lafayette is \$70,628, and 64% of residents in Lafayette are college educated.

4 Year Advisory Program:

Centaurus High School has a 4 year advisory program. Students meet with their advisory in a small class setting once per week. Centaurus is unique in that we incorporate the state-required ICAP requirements, along with critical skills into the advisory curriculum. Critical skills help to prepare students for life after high school through academic, personal and career-related lessons. The advisory class is worth 2.5 credits per semester and is worth an unweighted letter grade.

Programming at CHS

The teaching staff at Centaurus realizes the importance of a well-rounded education. Centaurus High School is an Engineering Focus School and an International Baccalaureate School that provides an environment rich in academia. Our International Baccalaureate, Advanced Placement, Engineering, AVID, elective, and extra-curricular programs ensure that each of our students is prepared for a competitive future. These programs provide students the most rigorous coursework in preparation for highly academic majors at the university level.

Centaurus High School Course Offerings

To read full course descriptions, please visit: <https://ceh.bvsvd.org/counseling/courses>

Language Arts Language Arts 9 Pre-IB Language Arts 9 English Language Arts 10 Pre-IB Language Arts 10 English Language Arts 11 AP Language & Composition AP Literature & Composition Yearbook Communication in Society Discussion & Debate Public Speaking Film Literature Senior Composition Creative Writing Mythology Theatre 1, 2 Reader's Workshop English Language Development Culturally Linguistic IB Literature HL IB Theory of Knowledge (TOK)	Social Studies U.S. Government World Geography AP Human Geography AP Government World History AP World History U.S. History AP U.S. History Psychology Sociology IB World History SL & HL Business Finance Marketing 1-3 Marketing Entrepreneurship Sports Marketing Marketing Internship Marketing Lab Consumer/Family Studies Catering 1 & 2 Living On Your Own Miscellaneous AVID 9-12 Horizons	Math Algebra 1 Algebra 1 Extended Year 1 & 2 Geometry Pre-IB Geometry Algebra 2 Pre-IB Algebra 2 Pre-Calculus Advanced Pre-Calculus Statistics Problem Solving AP Statistics AP Calculus AB AP Calculus BC IB Math Studies SL IB Math Analysis 2 Engineering Introduction to Engineering Design Design & Manufacturing (Robotics) Biotechnical Engineering Civil & Architectural Eng. AP Computer Science Aerospace Engineering Engineering Design & Dev. IB Design Technology SL & HL IB Computer Science SL & HL	Science Physical Science Pre-IB Chemistry/Physics Biology Pre-IB Biology Anatomy/Physiology Earth/Space/Geological Science Chemistry Chemistry Advanced Physics AP Biology AP Chemistry AP Physics IB Chemistry I IB Biology SL & HL IB Physics SL & HL IB Environmental Systems & Societies SL Physical Education Issues in Health Wellness in Action Weight Training 1 & 2 Bowling Aerobic Walking Fitness Racquet Sports Team Sports Yoga Adaptive PE Advanced PE	World Languages French 1-3 Pre-IB French 2 & 3 IB French 4 & 5 SL & HL Spanish 1-3 Pre-IB Spanish 2 & 3 Spanish Language Arts Spanish 4 AP Spanish 5 IB Spanish 4, 5 & 6 SL & HL American Sign Lang. 1-4 Art Arts of the World Drawing & Painting 1-4 Pottery & Sculpture 1-4 Photography 1-4 Digital Art & Design (Photography) 1-4 IB Visual Arts SL & HL Music Concert Choir Select Mixed Choir Show/Jazz Choir Band Jazz Band Orchestra
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All Advanced, AP, and IB courses receive one extra quality point in grade calculation. According to Boulder Valley School District policy, this weighted grade scale will be implemented and used externally for college admission and internally for determining high school grade point average and eligibility for school academic awards and honors.

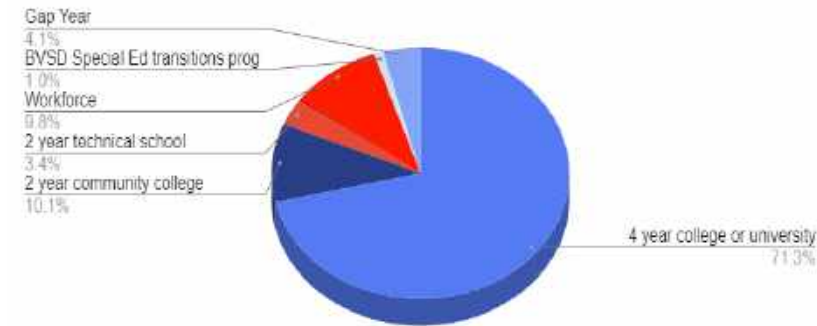
Weighted Courses

Engineering Courses	PIB & Advanced Courses	PIB & Advanced Courses cont.	AP Courses	AP Courses	IB Courses cont.
Introduction to Engineering	Pre-IB Language Arts 9	PIB Spanish 2 & 3	AP Human Geography	AP Biology	**IB Biology SL & HL
Design & Manufacturing	Pre-IB Language Arts 10	PIB French 2 & 3	AP Government	AP Physics 1 **AP Physics C	**IB Math Analysis 2
Civil & Architectural		Spanish Language Arts	AP U.S. History	AP Statistics	**IB Math Analysis 2
Aerospace Engineering	Pre-IB Geometry	Pre-IB Biology	AP World History	IB Courses	IB Spanish 4, 5, & **6 SL & HL
Biotechnical Engineering	Pre-IB Algebra 2	AP Courses	AP Language & Comp	**IB World History SL & HL	IB French 4 & **5 SL & HL
Computer Sci & Software Engineering	Pre-Calculus Advanced	**AP Spanish	**AP Chemistry	IB Theory of Knowledge (TOK)	**IB Physics SL & HL
Engineering Design & Development	Pre-IB Chem/Physics	AP Calculus AB	**AP Literature & Comp	**IB Visual Arts SL & HL	**IB Computer Science SL & HL
	Chemistry Advanced	**AP Calculus BC	**AP Computer Science	IB Environ Systems & Societies SL	**IB Design Technology SL & HL
				**IB Literature HL	IB Chemistry 1

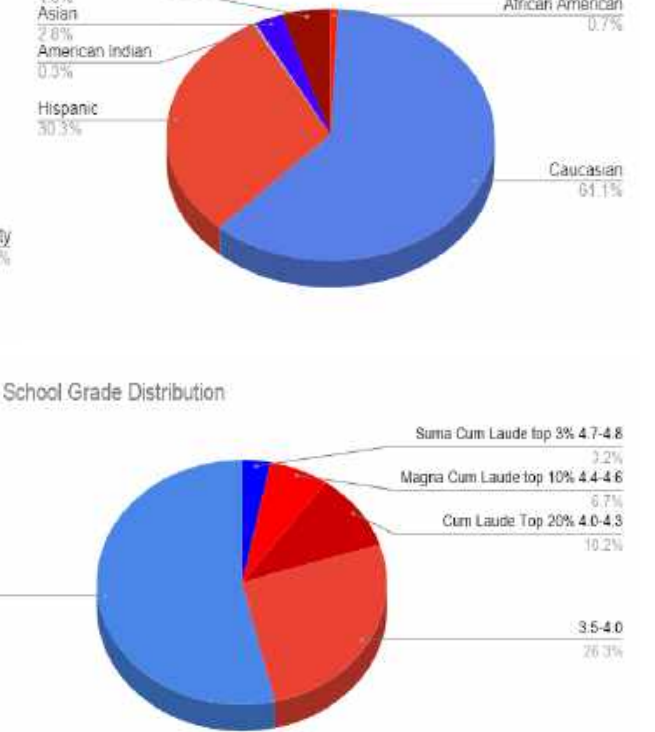
**Highest course taught in subject area.

Centaurus By The Numbers

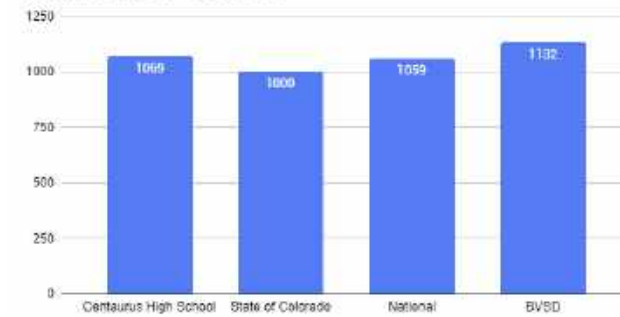
Centaurus High School Class of 2020 Post Grad Planning



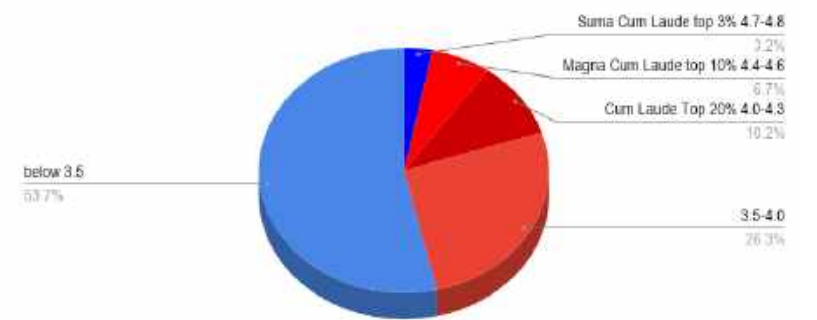
Centaurus High School Grade Distribution



Class of 2020 SAT Scores **class of 2021 score data is not yet available due to COVID-19



Centaurus High School Grade Distribution



Advanced Programming at CHS

IB Program

- Centaurus' IB Diploma Program is a full diploma program of two years of study in the junior and senior years.
- Centaurus' IB Diploma students excel at the collegiate level due in part to the strengths they have cultivated through our IB program; they are critical thinkers, collaborators, and leaders. They are academically curious and resilient.
- Centaurus Graduates consistently earn the IB Diploma at a higher percentage than the world average. 2019 CHS IB Diploma earn rate was 82%, 5 percentage points above the world average.
- 29% of the CHS Class of 2019 IB Diploma Candidates are students of Hispanic ethnicity or multiple ethnicities; 73% of these students earned the IB Diploma
- 2019 CHS IB Graduates were awarded 7.7 million dollars in scholarships.
- There are currently 96 IB Diploma Candidates enrolled in the CHS IB Diploma program in 2019-2020.

AP Program

- In 2019, there are 782 AP course enrollments at Centaurus High School across the 14 available AP subjects.
 - There are no limits to the number of AP classes a student can take. There are no applications, pre-requisites, or other barriers to students accessing the AP curriculum at CHS.
- In 2019, 45 total Centaurus students earned an AP Scholar distinction:
- 16 AP scholars
 - 15 AP scholars with Honor
 - 13 AP Scholars with Distinction
- In the past 3 years, 5 students have been awarded National AP Scholar recognition.
- * At Centaurus High School, 67% of all AP exams taken earn scores of 3 or higher.

Engineering Program

- Centaurus Engineering students solve real world engineering problems in a creative, collaborative, and project based environment.
- Over 475 students are currently enrolled in the program. Students design and build models using industry CAD software, and experiment with electronics and computer programming.
- The student laboratory is equipped with 3D printers, a laser engraver, two CNC machines, and a wind tunnel. Throughout their four years in the program, students connect with industry and academic partners in the classroom, on industry tours, through joint design projects, science fairs and expositions. Graduates pursuing careers in engineering are accepted to highly ranked four-year university engineering programs across the country.