

Centaurus High School

**The Pre-Engineering Focus School
International Baccalaureate Diploma School**

Heart of a Warrior



**Course Description Book
2011-2012**

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This Course Description Guide describes the educational opportunities, which have been developed by Centaurus High School staff and other Boulder Valley personnel to provide learning experiences and rigorous curricula for ALL students. Planning a program of educational coursework is the student's responsibility with assistance from parents, teachers, counselors, and other resource personnel.

STATE OF COLORADO 4-YEAR COLLEGE ENTRANCE REQUIREMENTS: We encourage every Centaurus student to begin planning for post high school training. To assist students and parents, we have outlined admission criteria representing colleges on a continuum from the most selective private institutions to less selective state colleges. Additional information will be provided at information seminars presented by the Counseling Department.

Academic Area Core Class Requirements

Class of 2010 – Phase 2

English	40 credits
Math (Algebra 1 level & higher)	40
Natural/Physical Sciences (20 credits must be lab based)	30
Social Sciences (at least 10 credits of U.S. or World History)	30
World Language (must be same language)	10
Academic Electives	<u>20</u>
TOTAL	180

CREDIT: Credits are indicators that a student has fulfilled a requirement leading to high school graduation. Five credits are awarded when a student has successfully completed a semester of course work in an individual class.

CUMULATIVE GRADE POINT AVERAGE: The average obtained by dividing the total number of grade points earned in high school by the total number of credits matriculated during the current grading period.

RANK IN CLASS: Class rank will not be placed on report cards or transcripts. It is BVSD Board Policy to NOT rank students academically. Valedictorians and salutatorians will no longer be designated in BVSD. High academic achieving students deserve recognition and shall be awarded Summa, Magna and Cum Laude Honors.

To earn such honors, students will be selected based on their cumulative weighted GPA after 7 semesters. The top 20% of the graduates in the Class of 2010, 2011 and 2012 will be recognized as follows: Top 3% = Summa Cum Laude; next Top 7% = Magna Cum Laude; and next top 10% = Cum Laude

CLASS LOAD: Freshmen are **required** to take 7 classes per semester. Sophomores must take a minimum of six classes per semester. It is recommended that sophomores take seven classes. Juniors and seniors must register for a required load of 5 classes per semester or a recommended load of 6 classes per semester. Juniors and seniors may register for 7 classes per semester if they choose. Students are required to maintain minimum class loads until graduation. Students may graduate early with principal approval. Contact a counselor for details. A minimum of 50 credits must be earned at Centaurus High School in grades 11-12 to earn a BVSD diploma.

ATHLETIC ELIGIBILITY: The Colorado High School Activities Association requires that students carry and maintain a passing grade in a minimum of five classes (25 credits) at the time of participation to be eligible for athletics. Students must remain eligible on a weekly basis. During the semester preceding participation, students must have carried a minimum load of 5 classes and must pass a total of 25 credits. Students who have any questions about their academic or general eligibility should direct any questions to the Athletic Director. It is recommended that athletes enroll in at least six classes.

TRANSCRIPTS: Transcripts can be requested through Naviance. There is a charge of \$2.00 for each official transcript.

CONCURRENT COLLEGE ENROLLMENT: Students who exceed the academic classes available at Centaurus may earn college credits through concurrent enrollment in college courses. Information packets and forms are available in the Counseling Office. The student must return a completed application to the Counseling Office no later than 60 days prior to the expected enrollment in an institution of higher learning.

GRADUATION REQUIREMENTS		
The Boulder Valley School District requires that a minimum of 220 credits be earned in grades 9 – 12. The following credits must be earned in the areas listed below.		
Credits	Grade	
Language Arts - 40 credits		Recommended sequence
10	9 th	Freshman Language Arts
10	10 th	World Literature and Composition
10	11 th	American Literature and Composition
5	12 th	Communications
5	12 th	Language Arts Electives
Social Studies – 30 Credits		Recommended sequence
5	9 th	U.S. Government
5	9 th	World Geography
10	10 th	World History
10	11 th	U.S. History
Math – 20 credits 10 Algebra 1 or higher		See math requirements for college entrance
Science – 20 credits 10 Life 10 Physical/Earth		See science requirements for college entrance. (Recommended minimum sequence through Chemistry). All students must have 10 credits in the Physical Sciences (Physical, Chemistry, Physics, Astronomy and Geology) & 10 credits in the Life Sciences (Biology, Intro to Biology, Intro. to Earth-after Physical & Intro to Bio, Anatomy and Physiology).
World Languages – 10 credits		10 credits must be in Level 2 or higher
Physical Education – 15 credits		
5	9 th	Comprehensive P.E.
10	9 th – 12 th	P.E. Elective

Health – 5 credits		
5	10 th	Issues in Health or
10	11 th – 12 th	Living On Your Own: 1 st sem. – 5 credits in Practical Arts & 2 nd sem. – 5 credits in Health (must pass both semesters to get health credits)
Humanities - 10 credits		Music, Art, or World Languages (at level 3 or above)
Personal Money Management – Met through a qualified course taken on campus or online.		
Practical Arts – 5 credits		Computer, Business, Family and Consumer Science, Boulder Tech or Engineering
Approved Electives – 75 credits		
Total Credits		220 credits

SCHEDULE CHANGES

The master schedule is created from the course selections students make during registration time in the spring. It is explained and impressed upon students that schedule changes are very difficult to make. Consideration of course selection is a very important and serious process. All students are encouraged to create and maintain a four-year academic plan.

Schedule changes are made for the following reasons:

- A student has already taken the course
- Too many classes on the student’s schedule
- Imbalance of class size
- Error on student’s schedule

Procedure to change schedule:

- *Students must first review their four-year plan with a counselor to see how the class change affects the student’s plan.*
- *All schedule changes and drop forms must have student, parent, teacher, and counselor signatures. In most cases an administrator’s signature is also required.*
- *Course changes should be completed within fifteen school days after the start of a new semester.*
- *Students may drop a class during the first fifteen days with no penalty. The course will not appear on student’s cumulative transcript. (Reminder: freshmen must have 7 classes or 35 credits; sophomores must have at least 6 classes or 30 credits; juniors and seniors must have at least 5 classes or 25 credits.)*
- *Students who drop a class in the sixteenth day through the thirtieth day of the semester will be issued a grade of “WP” (withdrawal passing) or “WF” (withdrawal failing) that will be recorded on the cumulative transcript. This grade does not impact the student’s cumulative grade point average.*
- *Students who drop a class or discontinue attending after the thirtieth day of the semester will receive a grade of “F” that will be recorded on the transcript and will be averaged into the student’s cumulative grade point average.*
- *When extenuating circumstances exist, the building administrator or designee may exempt certain students from this practice based on consultation with personnel from Special Education, English as a Second Language or other appropriate staff.*
- *A class will not be overloaded to make a schedule change.*
- *Schedule changes will occur through the first week of school.*
- *After the first week of school, a parent/teacher conference must occur prior to any schedule change.*

FOUR-YEAR PLANNING

The master schedule is built from student requests. If students do not select a class now, it may not be offered and thus can not be a choice later. This is especially true for electives. Students and parents should choose courses very carefully. Students and parents should consider the following:

- | | |
|---|----------------------------|
| Graduation requirements and 4-year plan | Career preparation |
| College entrance requirements | NCAA athletic requirements |
| Boulder Tech requirements | College major |

FOUR-YEAR PLANNING WORKSHEET

Freshman Year: Language Arts 9	Sophomore Year: World Literature and Composition
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U.S. Government/World Geography Math Science Comprehensive P.E. World Language (Recommended) <hr/> Total Credits Earned = _____ Credits Required = 70	World History Math Science Health World Language (Recommended) <hr/> Total Credits Earned = _____ Minimum Credits Required = 60
Junior Year: American Literature and Composition U.S. History <hr/> <hr/> <hr/> <hr/> Total Credits Earned = _____ Minimum Credits Required = 50	Senior Year: Language Arts Communication/Elective <hr/> <hr/> <hr/> <hr/> Total Credits Earned = _____ Minimum Credits Required = 50

Students should consider the following when designing their four-year plan:

1. **High school scholastic record as reflected in grade point average, and the rigor of courses taken.**
2. **The design of the high school transcript in preparation for college.**
3. **The results of scholastic aptitude and achievement tests.**
4. **Personal recommendations of counselors and teachers.**
5. **Activities, both in and out of school.**
6. **Consider the courses as they apply to career and college interests.**

COLLEGE ADMISSIONS TESTS/ASSESSMENT TESTS available are: PLAN (pre-ACT), PSAT/NMSQT (pre-SAT), American College Test (ACT), and College Board Scholastic Aptitude Test (SAT). Contact the Counseling Office for more details.

Transcripts for college may have two calculations for grade point average. Every transcript will have the weighted GPA calculated on a 5-point system. Students have the option of including an unweighted GPA. The unweighted information is calculated by decreasing the points for the grades earned in courses; A=4 points, B=3 points, C=2 points, D = 1 point and F = 0 points. Weighted grades are calculated as: A = 5, B = 4, C = 3, D = 2 and F = 0. Weighted classes include: AP, IB, Advanced and all Engineering classes.
(W denotes a weighted class).

INTERNATIONAL BACCALAUREATE PROGRAM

Crs. #:	Title:	Level:	Credits:	Prerequisite:	Fee:
I80 A&B	IB LA Grade 11 (W)	11	10	Advanced World Lit & Comp. (W)	
I81 A&B	IB LA Grade 12 (W)	12	10	IB LA Grade 11 th (W)	
I47 A&B	IB Spanish 4 (W)	10-12	10	Spanish 3/PreIB Spanish 3	
I73 A&B	IB Spanish 5 (W)	11-12	10	IB Spanish 4	
I51 A&B	IB French 4 (W)	10-12	10	French 3/PreIB French 3	
I71 A&B	IB French 5 (W)	11-12	10	IB French 4	
I75 A&B	IB Physics I (W)	11-12	10	Advanced Chemistry & Algebra 2	

I76 A&B	IB Physics II (W)	12	10	IB Physics I, IB Math or Pre-Calculus/Calculus	
I30 A&B	IB World History (W)	11	10	None	
I32 A&B	IB Regional/Option-Modern Asia (W)	12	10	IB World History	
I39 A&B	IB Biology – Standard Level (W)	11	10	Biology/Advanced Biology & Chemistry	
I94 A&B	IB Math Studies Level I (W)	11-12	10	Algebra 2	
I93 A&B	IB Math Studies Level II (W)	11-12	10	IB Math Studies Level I	
I95 A&B	IB Math I (W)	12	10	Advanced Pre-Calculus	
I96A&B	IB Math HL (W)	12	10	AP/IB Calculus (AB)	
I64 A&B	IB Visual Arts SL/HL (W)	11-12	10	Fdtn. in Art; Draw/Paint 1; teacher recommend	\$60
I99	IB Knowledge (W) (TOK)	11-12	10	Spring Jr Year (5); Fall Sr Year (5)	
I60 A&B	IB Design Tech./Pre-Engineer. SH/HL (W)	12	10	Minimum of 1 Pre-Engineering Course	
N31 A&B	IB Music SL/HL/Music Theory (W)	11-12	10	None	

GROUP 1 – IB LANGUAGE ARTS

IB LA Grade 11 (W):

This course develops the skills used in literary analysis based on close reading of selected IB works incorporating a world literature component. Frequent writing projects are assigned. Intensive practice is given in oral presentation, especially formal commentary. Summer reading required. This course satisfies the American Literature requirement. (Weighted class)

IB LA Grade 12 (W):

This course completes the two-year curriculum begun in IB English 11th grade: the detailed study of Shakespearean drama, non-fiction (essays and autobiography), modern poetry, and modern fiction. Close reading of works in a variety of cultural contexts and the writing of analytic essays are emphasized. A variety of oral work continues. Thorough preparation for the HL Language A IB examination is provided. This course imparts advanced college reading and writing skills. Summer reading required. (Weighted class)

GROUP 2 – IB WORLD LANGUAGES

IB Spanish 4 (W):

This course, taught exclusively in Spanish, explores advanced topics in composition and conversation, with an emphasis on refining and integrating advanced grammar into daily communication. Social and cultural topics will be explored through the study of literature. (Weighted class)

IB Spanish 5 (W):

This course is a rigorous continuation of IB Spanish 4 and is designed for the disciplined student who plans to take the IB standard level and/or the IB Spanish B SL or HL exam. The focus of this program is language acquisition and development through the study of literary texts and other readings. Oral and written proficiency will be evaluated frequently. (Weighted class)

IB French 4 (W):

This course, taught exclusively in French, explores advanced topics in advanced composition and conversation, with an emphasis on refining and integrating advanced grammar into daily communication. Students will develop an appreciation of prose and poetry. Emphasis will be placed on comprehension of French as spoken by educated native speakers. Students will develop appropriate verbs, structures, vocabulary, idioms, and cultural understanding necessary to perform basic communicative functions at an advanced level. (Weighted class)

IB French 5 (W):

This course is a continuation of IB French 4 designed for students who plan to take the IB French B SL or HL exam. This course, taught exclusively in French explores advanced topics in composition, grammar, and in-depth analysis of challenging literary works and readings from contemporary sources such as magazines, newspapers and articles. Students will be expected to understand a variety of listening materials taken from French television and radio programs. Students will develop a portfolio of readings and reports, both oral and written, to develop understanding of a particular aspect of French culture. Oral proficiency will be evaluated throughout the year as a part of the internal assessment for the exams. (Weighted class)

GROUP 3 – IB SOCIAL STUDIES

IB World History (W):

IB World History (20th Century Topics) is a year long course that meets half of the IB History HL requirements. This class focuses on the rise of single party states, causes, practices and effects of war, and the Arab/Israeli Conflict. (Weighted class)

IB Regional/Option-Modern Asia (W):

This IB History course meets half of the IB History higher level requirements. The class focuses on the rise of East Asian single party states, causes, effects and practices of war, and in-depth study of East Asia as a region in the early modern and modern historical periods. (Weighted class)

GROUP 4 – IB EXPERIMENTAL SCIENCES**IB Biology – Standard Level (W):**

IB Biology will focus on cells, bio-chemistry, energetics, genetics, evolution and ecology and an interdisciplinary research project. This lab-oriented course is required for all IB candidates to establish fundamental biology concepts in preparation for the IB Biology SL exam. (Weighted class)

GROUP 5 – IB MATH**IB Math Studies Level I (W):**

This course begins the preparation of students for the IB Math Studies exam. Topics covered are algebra, set theory, logic, probability, descriptive and inferential statistics and data analysis, linear, quadratic exponential and trigonometric functions, sequences and series, Euclidian geometry, financial math and an introduction of differential calculus. Students will also investigate a topic of their choice using the scientific method to collect, analyze and interpret data. The results of this investigation will be in a written report. (Weighted class)

IB Math Studies Level (II W):

This course is a combination of Math Studies I and will prepare students for the Math Studies SL exam. (Weighted class)

IB Math I (W):

IB Math I prepare diploma candidates for the IB Math SL exam. This course provides a comprehensive introduction to differential and integral calculus. The content and depth of coverage is on par with a college-level Calculus I course. Pre-requisite: Advanced Pre-Calculus

IB Math II (W):

This course prepares students for the IB HL exam and/or the AP Calculus (BC) exam. It includes a comprehensive study of Calculus II, introductory statistics and other advanced math topics. Pre-requisite: AP/IB Calculus (AB).

IB Physics I (W):

This course is the first of two courses in a sequence to prepare students for the IB Physics SL or HL examination. This class will acquaint students with the basic physical laws of our world. Through several practical laboratory exercises, students will develop a sense of experimental design, control, and uncertainty analysis. The first semester focuses on classic Newtonian Mechanics, Oscillations and Wave Theory. The second semester covers topics in Electricity, Fields, and Forces. A high degree of skill in algebra and geometry is necessary for success in this course.

IB Physics II (W):

This course is a continuation of IB Physics I, and will utilize a few basic principles of Calculus. The following topics are covered in depth: theory of knowledge and knowing in science, a review of Newtonian mechanics; thermal physics and thermodynamics; a review of electricity and magnetism with extension topics; a focus on global energy, power, and climate change; and additional exploration topics in physics. The course includes extensive lab work and the use of computer technology. Students will be prepared for the IB SL or HL Exam.

GROUP 6 – IB ELECTIVES**IB Visual Arts SL/HL (W):**

IB Art is for the serious student who is willing to generate a minimum of 12 quality pieces of art in one year for the SL exam or 20+ pieces in 2 years for the HL exam. The student will also develop a sketchbook/journal that includes sketches, research, and art history topics. The final portfolio and sketchbook project are evaluated by an outside examiner. This class will earn a weighted grade and, as with all art classes, there is a lab fee requirement. (Weighted class)

IB Knowledge (TOK) (W):

How do we know what we know, and can we prove it? These questions are the domain of Theory of Knowledge (TOK), the required core class for all IB Diploma candidates. Part philosophy, and part cultural anthropology, the class will examine issues of knowledge and knowledge claims in all of the subject areas of the IB Diploma Program. Through journals, presentations and papers students will come to a critical understanding of the claims of knowledge in the world around us. (Weighted class)

IB Design Technology/Pre-Engineering SL/HL (W):

There is no better way to understand the world of product design and development than to do it! Students will be immersed in project design and innovation, materials analysis, and project management. The culmination of this course is the completion of the Major Design Project. *Previous Engineering course work is required. (Weighted class)

IB Music SL/HL Music Theory (W):

IB Music SL/HL is a course that presents students with an opportunity to broaden their knowledge of the fundamental elements of music. Included in the study are rhythm, melodic line, and harmonic structure, ear-training and sight-singing. Assessments include: one musical investigation/paper, a recorded performance, and music composition (HL only). This course prepares students for the IB Music SL or HL exam (1-2 years). (Weighted class)

ART

Crs #:	Title:	Level:	Credits:	Prerequisite:	Fees:
A35	Foundations in Art	9-12	5	None	\$30
A41	Drawing and Painting 1	9-12	5	Foundations In Art	\$30
A42	Drawing and Painting 2	9-12	5	Drawing and Painting 1	\$30
A43	Drawing and Painting 3	10-12	5	Drawing and Painting 2	\$30
A44	Drawing and Painting 4	10-12	5	Drawing and Painting 3	\$30
A61	Pottery/Sculpture 1	9-12	5	None	\$30
A62	Pottery/Sculpture 2	9-12	5	Pottery/Sculpture 1	\$30
A63	Pottery/Sculpture 3	10-12	5	Pottery/Sculpture 2	\$30
A64	Pottery/Sculpture 4	10-12	5	Pottery/Sculpture 3	\$30
A71	Photography 1	10-12	5	None	\$35 (+\$10 camera rental)
A72	Photography 2	10-12	5	Photography 1	\$35 (+\$10 camera rental)
A73	Photography 3	11-12	5	Photography 2	\$35 (+\$10 camera rental)
A74	Photography 4	11-12	5	Photography 3	\$35 (+\$10 camera rental)
A110	Digital Art and Design	9-12	5	None	\$30
A111	Digital Art and Design 2	9-12	5	Digital Art and Design	\$30

Independent Study is available after 4 semesters. It is called Portfolio Review. Student will build a portfolio of work.

Foundations in Art:

Students can expect a wide variety of two-dimensional and three-dimensional experiences in this survey course. Students will be encouraged to think creatively as they develop drawing and painting skills and discover their personal preference for creating two and three-dimensional art. The elements and principles will be stressed and art history will be an informal component. Some media possibilities could be pencil, watercolor, clay, acrylic, wax casting, pen and ink, mixed media and others.

Drawing and Painting 1,2,3,4:

Drawing and Painting 1 is a foundation course that emphasizes basic design concepts using two-dimensional media. Students will study concepts in art history. In Drawing and Painting 2, 3 and 4, students will use advanced techniques to produce works for a portfolio. In addition, students will further exercise critical art skills through a study of aesthetics to become knowledgeable consumers and producers of art. Sketchbooks are required weekly.

Photography 1:

This introductory course deals with controlling light to produce an aesthetically pleasing image on light sensitive film and paper. Students will learn camera use, film processing darkroom procedures, visual literacy and the principles and elements of art in composition.

Photography 2:

This course deals with improving the student's ability to see, take and create a photographic image. Students may experiment with creative darkroom techniques such as sepia toning, hand coloring and multiple images.

Photography 3:

In this course students are encouraged to work in depth to initiate and carry out photographic ideas on a more independent basis. Medium format, digital and color photography may be introduced.

Photography 4:

This is an advanced level course designed to give students expanded skills and increased confidence in their ability to create photographs. Proficiency in basic skills will be expected. Students may be expected to make decisions about what the subject matter of their artwork will be. Some instruction may be given on an individual basis with the student's particular career goals in mind. Students may be expected to set their own goals and deadlines.

Pottery/Sculpture 1,2,3,4:

Pottery/Sculpture 1 is a foundation course that emphasizes basic design concepts using three-dimensional media. In addition to studio production, students will study concepts in aesthetics and art criticism. Studio assignments will relate to historical art models. In Pottery/Sculpture 2, 3, and 4, students will explore functional and nonfunctional art forms. In the advanced levels, students will refine skills and experiment with a wider range of materials, tools, and equipment, including the potter's wheel. Advanced students may choose either pottery or sculpture as an area of emphasis.

Digital Art & Design:

This introductory course deals with controlling computer technology to produce an artistic image. Students will learn computer illustration techniques, image manipulation, digital camera use, graphic design visual literacy, and the principles and elements of art in composition. Some artistic movements such as Pop Art and Surrealism will also be studied as they relate to student projects.

Digital Art & Design 2:

This course extends the fundamental concepts and skills of Digital Art and Design I of using computer technology to produce an artistic image. Students further advance their computer illustration techniques, image manipulation, digital camera use, graphic design knowledge, art history concepts, visual literacy and the principles and elements of art in composition.

AVID (Advancement Via Individual Determination)

Crs #:	Title:	Level:	Credits:	Prerequisite:
X51 A&B	H.S. AVID 9	9	10	Teacher Placement, Concurrent or passed Algebra 1
X52 A&B	H.S. AVID 10	10	10	Teacher Placement, at least 1 honors/AP course
X53 A&B	H.S. AVID 11	11	10	Teacher Placement, at least 1 honors/AP course
X54 A&B	H.S. AVID 12	12	10	Teacher Placement, at least 1 honors/AP course

AVID (Advancement Via Individual Determination):

AVID is a college preparatory program that focuses on students who are academically proficient yet need support in reaching and succeeding in advanced academic courses. AVID bridges student gaps in the skills, language, habits and resources of the college-bound student. Additionally, students in AVID receive academic and motivational support. Other aspects of the program include: Field trips to places of educational and cultural interest, tutoring by college students, partnerships with Naropa and the University Colorado-Boulder.

BUSINESS & MARKETING

Crs #:	Title:	Level:	Credits:	Prerequisite:	Fees:
B11	Word Processing 1	9-12	5	None	\$10
B13	Desktop Publishing & Computer Graphics	9-12	5	None	\$10
B41	Business Foundations	9-12	5	None	
B42	Finance	9-12	5	None	
B52	Accounting 1	9-12	5	None	\$15
B60	Business Management	10-12	5	None	
B68	Entrepreneurship	10-12	5	None	

B70	Technology in Business	9-12	5	None	\$10
B71	Business Internship	11-12	5/10	1 Business Class/Permission by Instructor	
B81 A&B	Marketing 1	9-12	10	None	\$30
B82 A&B	Marketing 2	10-12	10	Marketing 1	\$30
B83 A&B	Marketing Internship	11-12	10-30	Marketing 1 or 2 & approved by Teacher	\$30
B84 A&B	Marketing Lab	9-12	10	B81 or B82 with Instructor Approval	
B85 A&B	Marketing 3	11-12	10	Marketing 1 & 2	\$30
D87	Internet/Web Page Applications	9-12	5	None	

Word Processing 1:

This semester course is a review of the keyboard on an individual basis with emphasis on mastery in speed, accuracy, personal business letters and simple tabulation.

Desktop Publishing & Computer Graphics:

This semester class focuses on desktop publishing, graphics, and presentation software to create newsletters, books, magazines, newspapers, multimedia, presentations, and movies. Basic concepts of design, layout, topography, and graphics will be used to create professional looking documents and presentations.

Business Foundations:

Design a business in project form and attempt to make profitable decisions! Learn how to use the computer as a tool as you formulate and present your business decisions. Units of instruction may include: forms of business ownership, factors in locating a business, marketing, finance, obtaining and training employees, financial statements, and small business managements.

Finance:

This one-semester course is designed to help students develop their abilities to make wise consumer decisions by recognizing, understanding, and comparing the alternatives facing them as consumers. Budgeting, purchasing decisions and consumer credit, banking services, investing, life, auto and property insurance, income taxes and housing are some of the topics covered. (Beginning with the Class of 2010, credit for this class counts towards the Money Management requirement.)

Accounting 1:

This is a one-semester introductory course in double entry accounting procedures. Students will learn to keep financial records for a service or retail business. Principles covered include the bookkeeping cycle, debt credit theory, financial statements, use of various journal and ledger, worksheets, accounts receivable and payable, and payroll systems. Computers will be used for simulation and projects.

Business Management:

Students apply the management principles of planning, organizing, directing and controlling by forming and managing their own companies through a computerized management simulation. Students learn to use computers for preparing presentations, weekly cash flow projections, selling price spreadsheets and annual reports to stockholders. Presentations by local business owners, university professors and the Small Business Development Center provide information about starting their own business.

Entrepreneurship:

In this one-semester course, concepts of entrepreneurship and the role of entrepreneurs in the economy from start ups through later states of organization life cycles will be studied. Topics include venture idea screening, business planning, case studies and/or entrepreneurial environments.

Technology In Business:

Students will use the microcomputer for the following types of business applications: store and retrieve business related information; use of electronic spreadsheets; databases, word processing and spell check programs; bar, line, and pie graphs using business related data; and integrated software with three or more types of programming.

Marketing 1:

This is a one-year introductory course for students interested in Marketing. The course explores the fundamentals of marketing including: economics, sales, product/service planning, promotion/advertising, market research, logistics, human relations, and communications and marketing career development. Membership in the student marketing organization, DECA, is an integral part of the Marketing Program.

Marketing 2:

Marketing is the second-year course in the Marketing Program for students interested in careers in the field of marketing and management, global marketing and entrepreneurship. The content emphasizes strategic marketing, marketing management, business operation and the global marketing environment. The course challenges students to apply their classroom instruction through business simulations and interaction with the business community. Students will develop a business plan and demonstrate the application of marketing skills and concepts within the business environment. Membership in the student marketing organization, DECA, is an integral part of the Marketing Program.

Marketing Internship:

Be a success in the business world! Marketing Internship gives students the opportunity for practical application of the concepts learned from the marketing classroom to a real world paid experience. Marketing Internship is available as an option to students who are enrolled in the Marketing Program and have received the instructor's permission to enroll. Students must be at least 16 years old and able to work at least 15 hours per week in positions approved by the teacher-coordinator in the field of marketing.

Marketing Lab:

Marketing Program students enroll in a one-year Marketing Lab to receive high school credit for non-paid work experience related to a business enterprise. Positions must be approved by the Marketing instructor.

Marketing 3:

This course is designed for students with a career interest in marketing, management or business who plan to continue their education. Marketing 3 will provide students with the opportunity to expand their knowledge of marketing from a management perspective. This course focuses on ethics, economics, information-management, product planning, pricing, promotion, purchasing, distribution, finance, the global marketplace, and the development of business and marketing plans. Classroom instruction will be reinforced through the use of case studies, guest lecturers, field trips, computer simulations and specialized career study. Membership in the student marketing organization, DECA, is an integral part of the Marketing Program.

Internet/Web Page Applications:

This course is designed to provide students the opportunity to apply programming skills to web development.

ACADEMIC SUPPORT CLASSES

Crs #:	Title:	Level:	Credits:	Prerequisite:
L509A/L519B	ASC/Readers Workshop – 9 th Grade	9	10	Teacher Placement
L5010A/L5110B	ASC/Readers Workshop – 10 th Grade	10	10	Teacher Placement
L5011A/L5111B	ASC/Readers Workshop – 11 th Grade	11	10	Teacher Placement
L5012A/L5112B	ASC/Readers Workshop – 12 th Grade	12	10	Teacher Placement

Academic Support Class (ASC)/Readers Workshop I/II:

The Academic Support Class (ASC) provides students with at least two and more often, three teacher specialists from Literacy, English Language Acquisition and the Special Education Departments. The ASC classes are provided at each grade level (9-12). Each ASC teacher also co-teaches a content area class in Science, Math, Social Studies, Language Arts, or World Language at the corresponding grade level. Ninth grade ASC teachers co-teach Freshman Language Arts, for example. In this manner, ASC teachers are prepared to support students with specific classroom learning goals and assignments. Strategies include activating background knowledge, pre-teaching vocabulary, and one-on-one or small group instruction. ASC also aids students in self-advocating, monitoring progress, organization and reading skills. Students are selected for the class by teachers and counselors familiar with their learning styles and needs. (1st Semester)

FAMILY & CONSUMER SCIENCE

Crs #:	Title:	Level:	Credits:	Prerequisite:	Lab Fee:
H20	Catering 1	9-12	5	None	\$30.00
H21	Catering 2	11-12	5	Catering 1	\$30.00
H30	Fashion Production	9-12	5	None	\$15.00
H50 A&B	Living On Your Own	11-12	10	None	\$10.00
H61	Child Development 1	9-12	5	None	None
H81 A&B	Wage Earning	12	10	None	None

Catering 1:

Broaden your understanding and appreciation of food! Learn about nutrition and food preparation while applying new skills in a lab experience and catering events. Projects reflect worldwide culinary traditions, while respecting current diet and nutrition guidelines. Class format includes hands-on instruction, cooperative activities, individual and group projects and guest speakers.

Catering 2:

Catering 2 provides the opportunity to apply advanced skills in a restaurant or catering format. Catering projects will reflect the culinary traditions of the US as well as international cuisine. Class format will include but will not be limited to cooperative lab experiences, individual and group projects, presentation by guest speakers, and use of a variety of state of the art technologies. Personal and leadership activities from the vocational student organization Family, Career and Community Leaders of America are integrated into class activities. Consistent daily participation is expected.

Fashion Production:

Students will develop career and technical skills in the areas of fashion merchandising, design and apparel production. Practical experiences will be provided through labs and projects. Units include fashion theory, elements and principles of design, merchandising, pattern alterations, apparel production and clothing care. Students will provide their own materials for apparel production projects.

Living On Your Own:

This year-long course is designed to help sharpen your focus on your own life. It is to help you gain a clear picture of who you are and how you got that way. It is designed to help you gain a measure of control over your future. Topics include: relationships, housing, personal finance, parenting, communications, healthy lifestyle, food and nutrition and preparing for "life after high school." This course is taught as a year long, two-semester sequence. *Two semesters of Living On Your Own fulfills CHS Health graduation requirement.*

Child Development 1:

This class offers the opportunity to develop a positive understanding of the growth and development of children and parenting skills. Class activities will emphasize the responsibilities and challenges of parenting. Also, the class may include a play school whereby students apply techniques for working with children.

Wage Earning:

Expand your career horizons and earn while you learn in this year-long course. Identify your strengths, interests and skills in the world of work. Become a knowledgeable entrepreneur by creating your own business in the classroom. Emphasis is on personal leadership development, balancing work and family, development of job portfolios, and interviewing skills. Students will successfully complete class requirements and work 15 hours per week in positions approved by the instructor. Students are evaluated by their employer each quarter to assess their reliability and quality of work.

LANGUAGE ARTS

Crs #:	Title:	Level:	Credits:	Prerequisite:
L08 A&B	Freshmen Language Arts	9	10	None
L11 A&B	Freshmen Language Arts Advanced (W)	9	10	Teacher Placement
L14	Senior Composition	12	5	None
L16 A&B	World Literature & Comp. Advanced (W)	10	10	Teacher Placement
L19	Creative Writing	10-12	5	None
L20 A&B	American Literature & Composition	11	10	None
L27 A&B	World Literature & Composition	10	10	None
L31	Communication in Society	10-12	5	None
L33	Discussion & Debate	9-12	5	None
L34	Public Speaking	10-12	5	None
L35	Introduction to Theatre	9-12	5	None
L36	Acting (Theatre 2)	10-12	5	Introduction to Theatre
L39 A&B	Competitive Forensics	9-12	10	Teacher Placement
L47 A&B	American Literature & Comp. Advanced (W)	11	10	Teacher Placement
L54	Short Fiction	10-12	5	None
L75	Shakespeare	10-12	5	None
L77 A&B	AP Language & Comp. (W)	11	10	Application

L88 A&B	AP Literature & Comp. (W)	12	10	Adv. Language Arts Coursework, App. Required
L161	Comic & Graphic Novel Literature	9-12	5	None
LE0	Film Literature	11-12	5	None
LE1	Journalism: Reporting I	9-12	5	None
LE6 A&B	Advanced Journalism (School Newspaper)	10-12	10	Journalism: Reporting I or Teacher Placement
LE7 A&B	Yearbook	10-12	10	Teacher Placement
LE8	Play Production (Theatre 3)	11-12	5	Acting (Theatre 2) or Intro to Theatre

Freshmen Language Arts:

In this course, students study various authors to enhance students' enjoyment of reading and to sharpen their skills in writing and speaking. Paragraph writing skills are maintained and further developed, as are all mechanics. Vocabulary enrichment provides more succinct expression. Preliminary research skills are introduced to develop critical analysis and distinction between fact and opinion.

Freshmen Language Arts Advanced: (W)

This class is designed for students who have demonstrated strong skills in LA. This accelerated course introduces additional grammatical and literary concepts, refines composition skills, expands research skills, and offers opportunities for creative expression and critical thinking. This course is more demanding and the expectations are higher than Freshmen Language Arts. Summer reading required. (Weighted class)

Senior Composition:

This course prepares students for college writing experiences. Assignments emphasize techniques of rhetoric, such as extended definition, analysis, argumentation, and persuasion. Students expand vocabulary and practice precise word choice skills. They investigate techniques in locating source materials, note taking, thesis writing, and organizing information. They demonstrate these skills through writing assignments including research papers. The course employs critical reading and writing in the development of unique, forceful writing. (Not weighted)

World Literature and Composition Advanced: (W)

World Literature and Composition Advanced is a demanding year-long course for sophomores seeking a greater challenge in the Language Arts. Students should be able to read, comprehend, analyze and write at an accelerated rate and demonstrate a facility with and an enthusiasm for language. The course will be organized in chronological, regional, or thematic order. Critical reading and sophisticated analysis of world literature from 3500 BC to the present will be the core of the course. Various modes of composition will be taught. Grammar, mechanics, and vocabulary building will be emphasized to improve and enhance the quality of student writing. Summer reading required. (Weighted class)

Creative Writing:

This course introduces the student to the writing of fiction, poetry, the personal narrative, drama, screenplay, and creative essay. Students analyze peer and published authors for particular artistic devices in order to understand the writer's skill in narration, dialogue, description and specific detail. This course provides activities and projects to stimulate latent talent and ideas, to encourage appropriate freedom of expression, and to develop sensitivity to the power of words in the written medium. Students may be required to read their work aloud for class critique. The course may introduce students to appropriate markets for publication.

American Literature and Composition:

American Literature and Composition is a year-long course for juniors. The course will include the study of classic American literature through current American literature. In addition, instruction in writing techniques will be an integral part of the course. Students will increase their ability to write clearly, formally, and logically for a variety of purposes and audiences. Grammar, vocabulary, and literary terms will be included. Literary analysis and critical thinking will be emphasized in class discussions and writing assignments.

World Literature and Composition:

World Literature and Composition is a year-long course for sophomores. The course will be organized in chronological, regional or thematic order. Critical reading and analysis of world literature from 3500 BC to the present will be the core of the course. Various modes of composition will be taught. Grammar, mechanics, and vocabulary building will be emphasized throughout the course to improve and enhance the quality of student writing.

Communication in Society:

This course is designed to assist students in learning to improve self-confidence and effectiveness in a wide variety of communication situations. Opportunities are provided to learn about interpersonal and intrapersonal communication. Attention focuses on learning speech fundamentals, breaking down the barriers to communication, becoming aware of and expressing ideas and feelings, problem solving, and decision making.

Discussion & Debate:

This course is designed to teach the student the methods of problem-solving through formal discussion and debate. John Dewey's problem-solving sequence serves as a basis for a panel discussion and a parliamentary procedure, Student Congress session. The bulk of the semester focuses on a policy debate, using the National Forensic League's annual topic, and a Lincoln-Douglas values debate. The students need good reading, writing, researching, listening, and note taking skills so as to present and flowchart a formal debate.

Public Speaking:

This course cultivates technique and polish in public speaking. Public Speaking allows students to develop skills in preparation, organization, and presentation of speeches. Students practice and deliver prepared extemporaneous and impromptu speeches in order to inform, persuade, or entertain. Students also enhance their reading skills through the oral interpretation of literature.

Introduction to Theatre:

The course provides a foundation in all phases of theatre: theatre history, play analysis, terminology, basic stage movement, vocal mastery, memorization, character interpretation, basic production principles, selection and evaluation of plays.

Acting (Theatre 2):

This advanced course concentrates on specialized acting skills. Areas of study include physical and vocal exercises and techniques; reading, viewing, and analyzing plays; psychology of stage movement; research in makeup and costume design as applied to characterization; investigation of acting theories and styles; and actual performance situations.

Competitive Forensics:

This course prepares the student for advanced studies in all areas of forensics: CX Debate, L/D Debate, Extemporaneous Speaking, Duo Interpretation, Student Congress, Original Oratory, Duet Acting and interpretation of drama, poetry and humor. Members of this class are also members of the CHS Debate Team and will compete at tournaments. The class serves as a laboratory for competitive situations. This course may be repeated for credit with prior permission. (This course meets the communication requirement for graduation.)

American Literature & Composition Advanced: (W)

This course is a demanding year-long course for juniors. The course will have detailed studies of American literature from the 17th century to the present. Students will read and respond to a large variety of literature about the American experience. A strong writing component will be integral to the class. Students will develop critical reading skills, literary analysis and critical thinking. Students will conduct and report on extensive research with documentation to defend a position. Continued emphasis will be placed on formal use of English grammar and mechanics including correct spelling. Summer reading required. (Weighted class)

Short Fiction:

This course covers elements of short fiction from a broad range of authors. Literature is used as a basis for discussions, writings, and presentations. Students will develop skills to interpret and analyze literature. This course may involve outside reading and research of the authors.

Shakespeare:

This course introduces students to the works of Shakespeare and the Elizabethan period in which he lived. Students will investigate his continuing appeal as a playwright by exploring his ability to use characterization, dramatic language, and universal themes. Students will analyze representative examples of tragedies, comedies and/or histories. Student performance of selected Shakespearean scenes enhances understanding of all aspects of Shakespeare's work. Shakespeare's status as the preeminent master of the English language enables his work to serve as an ideal model for the study of literature in general

AP Language & Composition: (W)

Students may earn college credit for this one-year college-level course. The course develops the writing skills required for rhetorical analysis. Students explore the ideas of noted philosophers and major American writers while perfecting their own writing skills. *This course fulfills the American Literature and Composition 10 credit requirement.* A summer reading list and writing assignment are required preparation for the class. (Weighted class)

AP Literature & Composition: (W)

This course will engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. This course will prepare students for the AP English examinations. Summer reading required. (Weighted Class)

Film Literature:

Film Literature examines literary and artistic forms as interpreted through film. Students develop literary, verbal, and visual analysis skills through discussion and written critiques. This course promotes an understanding of film's historical progression, its language, its techniques, and its conscious and subliminal effects upon personal and public opinion.

Journalism: Reporting I:

This course offers an in-depth survey of journalism, including news writing, interviewing, and writing stories (news, features, sports, editorials and columns). It also covers the history of journalism, newspaper terminology, headline writing, copy and proofreading, advertising, page layout and photojournalism.

Advanced Journalism:

Students in this two-semester course are responsible for publishing the school newspaper or newsmagazine and for refining journalistic skills previously acquired. To meet the regular, predetermined production schedule, students are obliged to write stories, to sell and collect advertising, to keep the financial records, and to work for several hours each week outside class on some phase of the publication's production. Students fill top positions in editing, news assigning, accounting, advertising, copy reading, page design, and photography. Students may continue in this course for elective credit.

Yearbook:

This elective class produces the yearbook and possibly the senior magazine. Work includes writing copy, taking pictures, preparing layouts and working within the budget with the assistance of the yearbook company, its salesperson, and professional photographers. Since meeting deadlines is a primary concern, students must be willing to make the commitment to spend hours outside of class to achieve its goals and objectives. Students may re-enroll in this class.

Play Production (Theatre 3):

This course is designed to provide advanced study in the field of theatre arts. It gives students interested in drama an opportunity to develop their skills in theatre and practice them in actual production. The specific goal of the course is to acquaint the students with all major phases of play production necessary for the successful staging of a play. Students actively participate in a theatrical production while enrolled in the course. Students may enroll for a second semester for credit.

Comic & Graphic Novel Literature:

This course covers the techniques and history of comic art and graphic novel storytelling. The students will study the various formats and techniques used over the years in comic strip, comic book and graphic novel publications, emphasizing how both illustration and script blend to create a unique storytelling form. The students will also learn standard-form sequential art scriptwriting procedures to produce their own work for the class.

SPECIAL EDUCATION

Students who have Individualized Education Plans (IEP) will register for courses with the assistance of their special education case manager so that their educational program is consistent with the goals and objectives of their IEP. This program may consist of regular education courses with some instructional accommodations, co-taught classes, courses provided in the regular education class with a modified curriculum, and/or courses provided by the special education teacher. There is also collaboration with other district programs to provide appropriate services to meet the needs of the individual student. Students and parents should work with their special education case manager to complete the course registration form.

MATHEMATICS

Crs #:	Title:	Level:	Credits :	Prerequisite:
M23 A&B	Basic Algebra 1	9-12	10	Teacher Placement
M31 A&B	Algebra 1	9-12	10	Teacher Placement
M39	Problem Solving in Math	10-12	5	Algebra 1
M40 A&B	Basic Geometry	10-12	10	Algebra 1 or Basic Algebra 1
M41 A&B	Geometry	9-12	10	Algebra 1 or Basic Algebra 1
M43 A&B	Geometry Advanced (W)	9-12	10	Teacher Placement
M50 A&B	Basic Algebra 2	11-12	10	Basic Geometry or Geometry
M51 A&B	Algebra 2	9-12	10	Algebra 1 & Geometry
M55 A&B	Algebra 2 Advanced (W)	9-12	10	Teacher Placement
M61	Pre-Calculus 1	10-12	5	Algebra 2 or Basic Algebra 2; Teacher Placement
M62	Pre-Calculus 1 Advanced(W)	10-12	5	Algebra 2 Hon. or Teacher Placement
M63	Pre-Calculus 2 Advanced (W)	10-12	5	Honors Pre-Calculus 1
M64	Pre-Calculus 2	10-12	5	Pre-Calculus 1
M65 A&B	AP Calculus AB (W)	11-12	10	Honors Pre-Calculus 2 or Pre-Calculus 2
M67	Statistics	11-12	5	Algebra 2, Algebra 2 Honors, Pre-Calculus 1 or Honors Pre-Calculus 1
M69 A&B	AP Statistics	11-12	10	Algebra 2 and Teacher Placement

Recommended calculators: TI-83 Plus Graphing Calculator and the TI-94 Plus calculator

Basic Algebra 1:

Basic Algebra 1 is an introduction to algebraic symbolism, systems of equations, graphing, problems solving, and probability and statistics. The students will build upon their previous knowledge to further understand the characteristics and representations of various functions and relations, including first degree equations and inequalities, polynomials, exponential and radical expressions, and quadratic equations. This course will move more slowly with less abstraction than Algebra 1.

Algebra 1:

Algebra 1 is the study of algebraic symbolism, systems of equations, graphing, problem solving, and probability and statistics. The students will build upon their previous knowledge to further understand the characteristics and representations of various functions and relations, including first degree equations and inequalities, polynomials, exponential and radical expressions, and quadratic equations.

Problem Solving in Math:

This course is designed around the concept of problem solving, critical thinking, written and oral communication. Upon successful completion of this course, students will be proficient in many strategies of problem solving including, but not restricted to, diagram techniques, systematic lists, matrix logic, and use of patterns.

Basic Geometry:

Geometry Basic covers the same topics as Geometry in a less rigorous manor. There is an emphasis on developing understandings that the students can apply to practical applications. The students will study the topics of congruence, similarity, parallelism, perpendicularity, properties of polygons, transformations and circles. The maintenance of algebraic skills will be emphasized.

Geometry:

Geometry presents a thorough study of the structure of the postulation system and the development of formal synthetic proof. It considers the topics of congruence, parallelism, perpendicularity, properties of polygons, similarity, and the relationships of circles, spheres, lines, and planes with respect to space as well as the plane. The maintenance of algebraic skills will be emphasized.

Geometry Advanced: (W)

Geometry Advanced presents a thorough study of the structure of the postulation system and the development of formal synthetic proof with an emphasis on logic. It treats the topic of congruence, parallelism, perpendicularity, properties of polygons, similarity, and the interrelations of circles, spheres, lines and planes. This course is designed for highly motivated mathematically talented students. (Weighted class)

Basic Algebra 2:

Algebra 2 Basic parallels Algebra 2 with less rigor. The students will study number sets, relations and functions, solutions of first and second degree equations, graphing, exponential and logarithmic functions, right triangle trigonometry, and probability. Statistics and rational functions may be covered.

Algebra 2:

Algebra 2 emphasizes the structure of algebra. The students will study number sets, relations and functions, solutions to first and second degree equations, graphing, exponential and logarithmic functions. Counting principle, probability, statistics, matrices, and right triangle trigonometry are also covered. They will apply their studies to develop understandings of how these topics relate to one another. Logic and matrices may be included. Conic sections, sequences and series and advanced trigonometric topics may be included.

Algebra 2 Advanced: (W)

Algebra 2 Advanced will cover the concepts of Algebra 2 with more emphasis on theory and structure and applications. The students will study number sets, relations and functions, solutions to first and second degree equations, graphing, exponential and logarithmic functions, probability, statistics, and trigonometry. The students will make and test conjectures to deepen their understandings of these topics. Sequences and series and advanced trigonometric topics will also be covered. (Weighted class)

Pre-Calculus 1:

This course includes the study of polynomial functions, equations, rational functions, matrix algebra, logarithmic and exponential functions, conic sections, binomial theorem, counting probability-statistics, math induction, and the three dimensional coordinate system.

Pre-Calculus 1 Advanced: (W)

Pre-Calculus 1 Advanced is designed for highly motivated and mathematically talented students. It covers algebraic and transcendental function, higher degree polynomials, logarithms, and trigonometry in depth. (Weighted class)

Pre-Calculus 2 Advanced: (W)

This course will study topics of vectors and parametric, conics, polar functions and parametric, surfaces, cylinders, ellipsoids and parabolas. It will also cover sequences, limits and series. (Weighted class)

Pre-Calculus 2:

This course includes the study of circular functions, special angles, graphs, identities, inverse trigonometry functions, solutions of right and oblique triangles, polar coordinate systems and their applications and vectors and their applications in two and three dimensions.

AP Calculus AB: (W)

AP Calculus AB is a college-level course that examines the theory of limits, differentiation, functional analysis, and integration. Students develop problem solving skills through application. Students are expected to take the advanced placement exam and may receive college credit. (Weighted class)

Statistics:

This course will explore the analysis of data and make use of graphical and numerical techniques to study patterns and departure from patterns. An emphasis will be placed on interpreting information from graphical and numerical displays and summaries.

AP Statistics: (W)

This course is designed to be equivalent to a one-semester, introductory, non-calculus based college course in statistics. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual theses. These are 1) exploring data: observing patterns and departures from patterns, 2) planning a study: deciding what and how to measure, 3) anticipating patterns: producing models using probability and simulation, 4) statistical inference: confirming models. Students who successfully complete the course and AO exam may receive college credit and/or advanced placement for a one-semester college statistics course. (Weighted class)

PHYSICAL EDUCATION/HEALTH

Crs #:	Title:	Level:	Credits:	Prerequisite:	Fees:
G50	Issues in Health	10	5	None	
P20	Comprehensive Physical Education	9	5	None	
P24	Weight Training 1	9-12	5	None	
P25	Weight Training 2	10-12	5	Weight Training 1	
P30	Bowling	10-12	5	None	\$30.00
P44	Aerobic Walking	9-12	5	None	
P45	Aerobics	9-12	5	None	
P54	Racquet Sports	9-12	5	None	
P70	Team Sports	9-12	5	None	
P90	Advanced Physical Education	10-12	5	Comp. PE & teacher approval	

Issues in Health:

The primary focus of this course will be current issues in the health field. This course is designed to present the student with the latest information in the rapidly growing science of health, including a unit on human sexuality. This course will also place a high emphasis on skill development in the areas of decision-making, life-style assessment, and communication. Instruction and activities will be designed to motivate students to choose health behaviors that will allow them to build or maintain the best health status possible throughout their lives. This course is required for graduation and is required at the 10th grade level.

Comprehensive Physical Education:

This is a required course for all freshmen students. This course provides basic orientation to the high school P.E. curriculum. Students in this course are given the opportunity to explore the variety of elective physical education courses available to them during the remainder of their high school program. Emphasis is placed on skill development and fitness. The five fitness components of cardiovascular endurance, flexibility, muscular endurance, muscular strength, and body composition will be addressed. A six week district wide fitness unit will be taught. At the conclusion a district physical and cognitive assessment will be given.

Weight Training 1:

This course is designed to make students aware of various lifetime physical activities. Students will improve their fitness level through a variety of activities including weight training, cardiovascular conditioning, and circuit training. Information will be given concerning diet, sports, safety and muscle groups training. The five fitness components of cardiovascular endurance, flexibility, muscular strength, muscular endurance, and body composition will be addressed. This course may vary depending upon the interest of the students.

Weight Training 2:

This course is designed to go beyond the general levels and objectives of Weight Training 1. Specific work out programs (including cardiovascular workouts) will be developed to meet the needs of students wanting lift time fitness or toward sports participation. All programs will include the principles of specificity and progression. Weight room etiquette, safety and workout ethics will also be included in this course.

Bowling and Recreational Games:

Bowling develops basic techniques and form to safely enjoy this lifelong activity. Students learn how to score and prepare individual weekly averages. Students will have an opportunity to bowl doubles and league play within the class. Students do not bowl every day. Instruction in other recreational games is included in this course such as: horseshoes, golf, walking, tennis, badminton, ultimate Frisbee. **A \$30.00 fee is assessed for this class.**

Aerobics:

This class focuses on aerobic exercise and utilizes many techniques to achieve the aerobic state. Choreography and aerobic routines are emphasized in this course. Yoga, Palates, Core ball, Tae Bo, step, circuit, and a variety of dance styles are also introduced. Aerobic routines will be supplemented with proper stretching techniques, relaxation exercises, and general body fitness.

Aerobic Walking:

This course provides basic elements demonstrating how to maintain appropriate levels of cardiovascular and respiratory efficiency through a walking program. Students will learn to use heart rate monitors, pedometers and the FITT principal to create and follow a walking plan. The students will walk daily on designated courses on and off campus.

Racquet Sports:

The primary goal of this course is to assist students in developing fundamental skill in playing individual and dual activities such as tennis, badminton, table tennis, and pickleball. Along with beginning skill development, rules, etiquette, and playing strategies will also be emphasized. Students will have the opportunity to apply and improve skills through match play, tournaments and challenge ladders.

Team Sports:

The primary goal of this course is to assist students in developing fundamental skills in various team sports. Students will also learn the history of the sport, rules, etiquette, scoring, strategies, and develop fitness needed for success. Sport areas may include: lacrosse, ultimate Frisbee, handball, flag football, volleyball, baseball, softball, speedball, soccer, floor hockey, and team handball.

Advanced Physical Education:

This course is designed to go beyond the general levels of various lifetime physical activities and fitness. Students will improve their fitness level through a variety of activities including weight training, cardiovascular conditioning, flexibility training and circuit training. Information will be given concerning diet, supplements, training, sports improvement and muscle groups. The five health related components of fitness: cardiovascular fitness, muscular endurance, muscular strength, flexibility and body composition will be addressed

Pre-Engineering Academy

The Pre-Engineering Academy is focused on developing high school students for rigorous coursework at major engineering universities. Student's work is collaborative, hands-on, and project based. They connect with leaders from various industries, agencies, and universities to prepare students with the most relevant technologies and participate in activities at local engineering facilities. All engineering courses maintain the level and pace of advanced courses and are weighted. *(Students in pre-engineering courses are required to take college preparatory mathematics as indicated. An application is required.)*

PRE-ENGINEERING

Crs:	Title:	Level:	Credits:	Prerequisite:	Fees:
PA1 A&B	Engineering in a Global Society (W)	9-10	10	Concurrent enrollment in Algebra 1 minimum	\$5.00
PA3 A&B	Robotics & Manufacturing (W)	10-11	10	Concurrent enrollment in Geometry minimum*	\$10.00
PA4 A&B	BioMedical & BioTechnical Engineering (W)	10-12	10	Concurrent enrollment in Algebra 2 minimum*	\$5.00
PA5 A&B	Civil & Architectural Engineering (W)	10-12	10	Concurrent enrollment in Algebra 2 minimum*	\$5.00
PA6 A&B	Senior Design Project (W)	12	10	Concurrent enrollment in Pre-Cal, previous Engineering course	\$10.00

*Though not a pre-requisite, PA1 A&B is highly recommended.

Engineering in a Global Society: (W)

Do you want to help find solutions to real world problems? This is an introductory course which develops student problem solving, project planning, and analytical skills. Student work is completed in both individual and team settings using state-of-the-art computer hardware to create models using 3D software. Students will also explore career opportunities in engineering fields. Projects include: designing and building a model tower and "smashing" it to understand stress analysis; reverse re-engineering to produce a new product. (Weighted class)

Robotics & Manufacturing: (W)

Robotics is a part of everyday life – shouldn't everyone be getting to know them? Students will use design skills and software to program robotic vehicles. Students will explore the use of machinery to mass produce a product. (Weighted class)

BioMedical & BioTechnical Engineering: (W)

Is medicine and bio-engineering in your future? Interested in CSI forensic science (Crime Scene Investigations)? Bio-Engineering is a fast-growing field. Students will combine aspects of human anatomy and biology with engineering to explore genetic engineering and biomedical advances such as prosthetics, criminal science investigations (CSI) and forensics. Students will also tackle the moral, ethical, and legal questions surrounding this field as well as exploring career options. (Weighted class)

Civil & Architectural Engineering: (W)

This course is available to students who are ready to explore an engineering specialty. The work will focus on creating designs of buildings and structures using 3D architectural software. Students will evaluate various structures to ensure they support intended loads, maximize energy efficiency, and meet the proper legal requirements for construction. This time we design, build, and smash bridges! (Weighted class)

Senior Design Project: (W)

In this capstone course, students will work in teams of three to four to design and construct a solution to an engineering problem, applying the principles developed in the preceding courses. Each team will be responsible for CAD work, delivering progress reports and making final presentations of their project for an outside review panel of practicing engineers and at the University of Colorado-Boulder. Previous engineering course work is required. (Weighted class)

SCIENCE

Crs #:	Title:	Level:	Credits :	Prerequisite:	Fees:
S10 A&B	Physical Science	9-12	10		\$ 5.00
S31 A&B	Biology	9-12	10		\$10.00
S33 A&B	Anatomy & Physiology	11-12	10	Biology or Advanced Biology; also prefer Chemistry	\$22.00
S37 A&B	Biology Advanced (W)	9-12	10	Teacher Placement	\$10.00
S42	Astronomy	10-12	5		\$ 5.00
S44	Science Topics: Intro. to Biology	10-12	5	Physical Science Recommended	\$ 5.00
S47	Science Topics: Intro to Earth Science	10-12	5	Physical Science Recommended	\$ 5.00
S50 A&B	Chemistry	10-12	10	Biology & at least one, preferably two, years of Algebra	\$10.00
S51 A&B	Chemistry Advanced (W)	10-12	10	At least one, preferably two, years of Algebra & Teacher Placement	\$10.00
S61 A&B	Physics	10-12	10	M31 Algebra 1 & M41 Geometry	\$10.00
S65 A&B	AP Physics B (W)	11-12	10	Pre-calculus	\$20.00
S66 A&B	AP Chemistry (W)	11-12	10	Chemistry or Advanced Chemistry	\$10.00
S68 A&B	AP Biology (W)	11-12	10	Biology & Chemistry	\$22.00
S81	Geology	10-12	5		\$ 5.00

Physical Science:

Physical Science is a laboratory-based course involving principles and concepts concerning the physical world. Content areas explored include chemistry and behavior of matter, electricity, magnetism, light and sound, laws of motion and forces, and energy transformation.

Biology:

This lecture/laboratory-based class explores structure and function among living things. Units of study include: the characteristics of living things, biochemistry, photosynthesis and cell respiration, cell structure and function, DNA and protein synthesis, genetics, evolution, animal and plant biology, human anatomy and physiology and ecology.

Anatomy and Physiology:

Anatomy and Physiology is designed for students interested in learning about the structure and function of the human body. By dissecting a cat, students relate structure and function to human anatomy and physiology. Emphasis is placed on topics related to health careers. Successful completion of high school Biology or Advanced Biology is a pre-requisite. Completion of Chemistry is preferred but not required.

Biology Advanced: (W)

This course includes all the topics covered in Biology. However, each topic is covered in greater detail and at an accelerated pace. Emphasis is placed on energy relationships, molecular genetics, evolution, and ecology. This course is for students who have an above average interest and aptitude in science. Pre-requisite: teacher placement. (Weighted class)

Astronomy:

Astronomy is the study of the universe. The course includes observation of the night sky, a study of the solar system, stars and galaxies. Current space exploration is emphasized. Evening telescope viewing sessions are a recommended part of the course.

Science Topics: Introduction to Biology:

This laboratory-based course is designed for students who would like to extend their knowledge about the structure and function of living things. The curriculum is guided by the state and district standards in Earth Science.

Science Topics: Introduction to Earth Science:

This laboratory-based course is designed for students who would like to extend their knowledge in the areas of geology, astronomy and meteorology. The curriculum is guided by the state and district standards in Earth Science.

Chemistry:

Chemistry is the study of properties of matter and the changes that materials undergo in chemical reactions. This is a rigorous course, which offers a composite of laboratory, mathematical, and scientific content appropriate for the college bound student.

Chemistry Advanced: (W)

Chemistry Advanced is a more rigorous, faster paced class than chemistry. It presents the same topics as chemistry, but in a greater depth and expanded in areas. Recommended for students who plan on taking an IB or AP Science course in the future. (Weighted Class)

Physics:

This course helps students understand the basic physical laws of our world. The course includes scientific methods and measurements, forces, motion, energy, light, waves, electricity, magnetism and atomic physics. Laboratory work serves to promote understanding and to illustrate the experimental nature of physics. This course is designed for college bound students.

AP Physics B: (W)

Students with a high level of motivation and interest in science should take AP Physics. Typical candidates for this course are students seriously intending to pursue careers in science, engineering, mathematics or medicine. AP Physics is equivalent to a full-year college course in Chemistry. The course follows the College Board Advanced Placement Physics B curriculum. Students working toward the AP exam will need to spend additional preparation time beyond regular assignments. (Weighted Class)

AP Chemistry: (W)

AP Chemistry is designed to be the equivalent of the general chemistry course usually taken during the first college year. The course follows the College Board Advanced Placement. This course differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by the students. The AP Chemistry Exam may be taken at the end of this course.

NCAA Clearinghouse approved Course

AP Biology: (W)

AP Biology is a challenging lecture and laboratory-based, college-level course. It is for students who have successfully completed Biology and Chemistry. Students who pass the AP Biology Exam may receive college credit. Concurrent enrollment in the CU Extension Program is an option. (Weighted Class)

Geology:

Geology acquaints students with basic scientific principles that apply to the earth and the natural environment. Laboratory work includes activities with maps, rock structure, minerals, fossils and energy resources. New discoveries and environmental issues are discussed. Field experiences are an integral part of the course.

SOCIAL STUDIES

Crs #:	Title:	Level:	Credits:	Prerequisite:
C72	Diversity in the U.S.	9-12	5	None
T21 A&B	U.S. History	11	10	None
T37	U.S. Government	9	5	None
T38 A&B	AP U.S. History (W)	10-11	10	Application
T41 A&B	World History	10	10	None
T54 A&B	AP World History (W)	10	10	Application
T60	World Geography	9	5	None
T66	Current World Affairs	11-12	5	None
T80	Psychology	11-12	5	None
T84	Sociology	11-12	5	None
T85 A&B	AP European History (W)	12	10	Application

Diversity in the U.S.:

This course provides students the opportunity to explore the concepts of race, ethnicity, culture, oppression, privilege, community and leadership in order to simultaneously de-construct barriers that alienate youth from each other while building bridges of understanding in their place. The course will be highly interactive and experiential. Students will meet with a variety of members from many communities of color and other cultural groups, analyze literary works, art and the media, and share their learning through classroom presentations, discussions and written reports.

U.S. History:

This is a chronological course focusing on political, social economic and geographical concepts of United States history. During the first semester, students will study pre-colonial times to the Gilded Age. During the second semester, students will study American culture in the twentieth century.

U.S. Government:

This course presents the basic concepts of American government from pre-Revolutionary days to the present time. The functions of national, state, and local governments and their relationships to the citizens of the United States are covered. The responsibilities and obligations of both the citizen and the government to each other are an integral part of this course. A comparison of other important political systems and philosophies is considered.

AP U.S. History: (W)

AP US History is an intensive study of history designed for students looking to be academically challenged. Included in the course are college level reading, research, writing, critical thinking, and historiography. Many colleges will grant college credit in American History if a student earns "3" or better on the Advanced Placement Test given in the spring. This class meets the requirements of one year of United States History. (Weighted class)

World History:

This course focuses on the major developments in world history. Students will study the historical and cultural development of major civilizations in order to become more globally literate. The final unit of the course will emphasize the interdependence of the modern world since 1945.

AP World History: (W)

AP World History an intensive study of world history designed for students looking to be academically challenged. Major course themes include: interaction among major societies; impact of technology and demography on peoples and the environment; comparative systems of social and gender structure; comparative cultural and intellectual developments and changes in function and structures of states. College level readings, critical analysis, discussion, problem solving, debates, essays, historiography, and research are integral components of this course. Many colleges grant one year of college credit for World History if a student earns a 3 or better on the AP Exam given in May. (Weighted class)

World Geography:

This course is a study of basic geography concepts. Topics of study include population distribution, migration, map reading, location analysis, and natural physical phenomena. Patterns and relationships of world regions are emphasized.

Current World Affairs:

As societies around the world become more interdependent and drawn closer together by economics, politics and technology, it is more and more important for everyone to be aware of events occurring all around the globe. This course provides students with the opportunity to explore other cultures, political and economic systems and belief systems. The course is designed to allow students to present and defend their ideas and opinions about contemporary world issues and problems. Students will be expected to keep themselves well-informed on worldwide events and issues through a variety of media. The class will follow any ongoing world news stories. Study of domestic issues and news will be in the context of their affect on the rest of the world

Psychology:

Psychology is designed to provide students with a fundamental understanding of the science of psychology. This class will present students with a basic view of the field of study and will cover theories of personality, mental, emotional and physical development as they relate to the understanding of behavior.

Sociology:

Sociology is the study of human behavior. This class examines human groups and their behavior with emphasis on societies, values, institutions and organizations. Students study culture, groups, socialization, social change, social problems and contemporary issues such as crime, aging, environment, gender and social class. Students will take a deep look at themselves and society's effect upon them.

AP European History: (W)

AP European History is an intensive study of European history designed for students looking to be academically challenged. In addition to providing a basic narrative of events and movements, the goals of this class are to develop an understanding of some of the principal themes in modern European history, an ability to analyze and to express historical understanding in writing. The chronology will cover 1450 to the present. (Weighted Class)

WORLD LANGUAGES

Crs #:	Title:	Level:	Credits :	Prerequisite:
F11 A&B	French 1	9-12	10	None
F71 A&B	Spanish 1	9-12	10	None
F12 A&B	French 2	9-12	10	Must take placement test
F72 A&B	Spanish 2	9-12	10	Must take placement test
F13 A&B	French 3	9-12	10	Must take placement test
F73 A&B	Spanish 3	9-12	10	Must take placement test
F75 A&B	Spanish 310	9-10	10	Must take placement test
F103A&B	Personajes Historicos	9-12	10	Successful completion of Spanish 3 or 310
F19 A&B	French 4 (W)	10-12	10	Must take placement test
F79 A&B	Spanish 4 (W)	10-12	10	Must take placement test
F85 A&B	AP Spanish 5 (W)	10-12	10	Must take placement test
F98 A&B	American Sign Lang.	9-12	10	None
F99 A&B	American Sign Lang.	9-12	10	American Sign Language 1
I45 A&B	PIB Spanish 2 (W)	9-10	10	Take Advanced LA/contemplating AP/IB Program
I46 A&B	PIB Spanish 3 (W)	9-11	10	Take Advanced LA/contemplating AP/IB Program
I49 A&B	PIB French 2 (W)	9-10	10	Take Advanced LA/contemplating AP/IB Program
I50 A&B	PIB French 3 (W)	9-11	10	Take Advanced LA/contemplating AP/IB Program

French 1/ Spanish 1:

Level 1 introduces students to the specific foreign culture and to the four basic language skills: listening comprehension, speaking, reading and writing. Students acquire skills through oral repetition, dialogues, short compositions, dictations, reading, and written exercises.

French 2/ Spanish 2:

Level 2 furthers the study of grammar, vocabulary and an understanding of the foreign cultures through movies, videos and magazines. Students improve listening, speaking, reading and writing skills. Students begin to develop reading comprehension skills through short stories, plays and poetry.

French 3/ Spanish 3:

Level 3 reviews basic grammatical structures and continues the study of grammar, vocabulary, and culture. Students further develop skills in understanding reading, speaking, and writing through short stories, poetry, articles, oral presentations, and written exercises when applicable.

Spanish 310:

Spanish 310 is provided for students with advanced skills in speaking, reading and writing. There will be a review of grammatical structures in order to explore a variety of written and oral expression. There will be readings, written work, projects and group presentations for the student who is ready to advance with an academic focus. It will move at a faster pace and cover more material in-depth than Spanish 3. Permission of an instructor is required.

Personajes Historicos:

This course will provide opportunity for students to engage in meaningful practice prior to the weighted course work of Spanish 4 and AP/IB Spanish. This course will introduce students to the breadth and diversity of the roots of Hispanic culture through the studies of key figures of Spain and Latin America. Figures studied include, but are not limited to, El Cid, la Reina Isabel, Bartolome de las Casas, the Popol Vuh, Father Hidalgo, Gabriel Garcia Marquez, Emiliana Zapata, Simon Bolivar, and Rigoberta Menchu. Students will read authentic texts by and about the different personages and their influence on world and Hispanic history. All texts will be in Spanish. The class will be conducted in Spanish with emphasis on vocabulary acquisition and improvement of writing, reading, listening and speaking skills. This is designed to be a year-long elective class; however, students may take only one semester. Personajes historicos does NOT fulfil the graduation requirement for World Language.

French 4/Spanish 4: (W)

Level 4 is taught primarily in the specific World Language. It explores more advanced topics in advanced composition and conversation, with an emphasis on refining and integrating advanced grammar into daily communication. Emphasis will be placed on comprehension as it is spoken by educated native speakers. Students will develop appropriate verbs, structure, vocabulary, idioms and cultural understanding necessary to perform basic communicative functions at the advanced level. (Weighted class)

Spanish 5: (W)

Level 5 teaches mastery in reading, writing, and speaking the language. Students read short stories, plays and novels. They may participate in extracurricular activities using the foreign language. The Advanced Placement Language Exam is optional, but students who perform well on the test earn college credit for this one-year college-level course. (Weighted Class)

American Sign Language 1:

This class provides an introduction to American Sign Language. Students will build vocabulary and learn the basic shifts to ASL grammar. Students should be able to carry the thread of an ASL story, read simple conversation without the aid of hearing or speaking the human voice, have a strong grasp of reading and signing all vocabulary words (a minimum of 1,000). They will then master the reception and production of the manual alphabet and shifting conversations into silent mode. This will help build reception and syntax.

American Sign Language 2:

American Sign Language 2 furthers the study of grammar, vocabulary idioms, multiple meaning words, finger spelling, classifiers through text, signing presentations, dialogues, completion of this course meets both the Boulder Valley 2010 Graduation Requirements for Second Language Acquisition as well as the Colorado Commission for Higher Education Foreign Language requirement for admission to a four-year college in the state of Colorado.

PIB Spanish 2/PIB French 2 (W):

Level 2 furthers the study of grammar, vocabulary and an understanding of the foreign cultures through movies, videos and magazines. Students improve listening, speaking, reading and writing skills. Students begin to develop reading comprehension skills through short stories, plays and poetry. This course differs from the other Level 2 course in that it includes activities and strategies that examine the language at a deeper level. It is designed for students who are taking LA honors classes and who are considering AP and IB Programs in the future.

PIB Spanish 3/PIB French 3 (W):

Level 3 reviews basic grammatical structures and continues the study of grammar, vocabulary and culture. Students further develop skills in understanding reading, speaking and writing through short stories, poetry, articles, oral presentations and written exercises when applicable. This course differs from the other Level 3 course in that it includes activities and strategies that examine the language at a deeper level. It is designed for students who are taking LA honors classes and who are considering AP and IB Programs in the future or may be enrolling in the IB Program.

VOCAL & INSTRUMENTAL MUSIC

Crs #:	Title:	Level:	Credits :	Prerequisite:
N38	Popular Music & Sound Recording	9-12	5	None
N41	Guitar 1 (1 st semester)	9-12	5	Student required to provide acoustical guitar
N42	Guitar 2 (2 nd semester)	9-12	5	Guitar 1 & teacher approval
N60 A&B	Concert Choir (Mixed)	9-12	10	None
N64 A&B	Festival Choir	10-12	10	Audition Only
N68 A&B	Show Choir (Fermata the Blue)	10-12	10	Audition Only
N71 A&B	Band	9-12	10	Previous experience or demonstrated ability
N75 A&B	Jazz Band	9-12	10	Previous experience or demonstrated ability
N81 A&B	Orchestra	9-12	10	Previous experience on any stringed orchestral instrument

Popular Music & Sound Recording:

Popular Music & Sound Recording is a one-semester course designed to develop self-expression through the creation of lyrics and melodies in the style of popular music. We will be studying some of the history of Pop music and Rock and Roll. Recording engineering techniques will be studied and applied in producing sound recordings. Other topics will include mixer board basics, microphone techniques, care and maintenance of electronic equipment and cables, and practical experience operating sound equipment during live performances. Although no musical experience is necessary, the ability to sing or play an instrument would enhance your experience in this class.

Guitar 1:

Guitar 1 is an introductory-level class to help students start down the road to become a guitarist and more importantly to becoming a musician. The course will cover a variety of subjects such as reading standard music, tablature, and chord chart, playing techniques and styles, and classroom performances. Whether students are learning the guitar for the first time or have been playing for years, the structure of this class allows students to learn at a level that is right for them.

Guitar 2:

Guitar 2 is an intermediate-level class to help students continue down the road to become a guitarist and more importantly to becoming a musician. The course will cover a variety of subjects such as reading standard music, tablature, and chord chart, playing techniques and styles, and classroom performances. The structure of this class allows students to learn at a level that is right for them. Prerequisite is Guitar 1.

Concert Choir (Mixed):

Concert Choir is a non-auditioned mixed ensemble that gives you the opportunity of being involved in the vocal music program without the stress of auditioning. We will be performing a wide variety of music: classical, folksongs, Gospel and maybe even some jazz, blues and reggae. The Concert Choir will be giving several performances in school and around the community including the winter community tour, the AMS/CHS Music Extravaganza and the CHSAA Choir Festival.

Festival Choir:

Festival Choir is an auditioned ensemble that focuses on more difficult choral literature. Emphasis will be placed on developing more advanced musicianship and professionalism. Students will be performing classical literature as well as some jazz and contemporary *a cappella*. Students are required to have good sight-reading and listening skills. Performance opportunities include singing the National Anthem at sporting events, the winter community tour, the AMS/CHS Music Extravaganza, the Madrigal Dinner, the CHSAA Choir Festival and the Jazz Celebration at Metro State.

Show Choir (Fermata the Blue):

The CHS Show Choir (Fermata the Blue) is an advanced ensemble that performs classical and traditional literature in the fall, hosts the Madrigal Dinner in the winter, and performs jazz and contemporary *a cappella* in the spring. Students are required to have previous

choral experience, excellent sight-reading skills and excellent aural skills. Over the past few years, “Fermata the Blue” has gained a reputation of excellence and professionalism around the state and is often asked to perform at various functions around the Boulder/Denver area. If you have strong singing abilities, are dedicated to excellence and willing to work hard, this is the class for you.

Band:

Prerequisite: previous band experience or an audition. This course enables students to participate in marching and concert band. Marching band takes place during the first three months of school, and offers students a chance to learn the fundamental skills of marching used for parades, as well as a halftime show for football games and various competitions. Concert band studies the musical skills and the technical and artistic interaction necessary for performance in large and small ensemble settings.

Jazz Band:

The Centaurus Jazz Band is a traditional big band consisting of saxophones, trombones, trumpets, guitar, piano, bass guitar, and drums. The jazz band performs several different styles of music including swing, Latin, funk, rock and others. Students will also be taught and explore jazz improvisation. Students in the jazz band are expected to have previous musical experience and be able to read and perform music on a high school level. Students who wish to be in the jazz band must arrange an audition with Mrs. Mullen. Acceptance into the jazz band will be dependent on student ability and instrument availability.

Orchestra:

Prerequisite: previous orchestral experience or an audition. Orchestra provides technical and musical training for musicians using compositions from various musical time periods including pop music. The study of how an orchestra functions as well as foundational training in string instrument technique is coupled with the study of music theory, music history and composition. Experiences in Orchestra range from formal concerts to performances of solo and small ensemble pieces. Opportunities are provided to participate in the school musical in the spring semester. Winds and percussion may be incorporated during the school year.

Talented & Gifted Program (TAG):

The Talented and Gifted Program at Centaurus High is based on student self-selection from a wide range of course and performance opportunities. We offer classes that inspire creativity: pottery, art, photography, creating writing, theater, journalism and yearbook. Opportunities to excel in academic work through advanced classes, Advanced Placement, International Baccalaureate and Pre-Engineering Programs. Performance and competitions involve extra-class activity from band, drumline, orchestra, Choir, Madrigals, Fermata the Blue Choir, debate, theatre, DECA (Delta Epsilon Chi Association: a marketing organization with local, national and international competitions), Future Business Leaders of America, to athletics. TAG students are involved in a range of programs from I Have A Dream, AVID (Advancement Via Individual Determination), Leadership in Action, National Honor Society and English Language Learners to being concurrently enrolled in college level classes.

Boulder Technical Education Center (TEC) Tec classes have not been updated for the 2010-2011 school year yet.

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<http://bvsd.org/schools/bouldertec/Pages/default.aspx>

Boulder Technical Education Center (TEC) programs are available to all BVSD high school students as elective credits in career and technical educational areas. In small classes, students follow a sequence of courses that provide hands-on technical skills and academic knowledge needed to prepare for an immediate career and/or further education. Students also use the Career Pathways Center to learn career search techniques to explore Career Pathways and post-secondary options.

Certifications in TEC programs may be earned after course completions ranging from one semester to two years. TEC students with transcribed certifications are eligible to apply for articulation credit at Front Range Community College, and/or use the TEC credit with the Advanced Credit Pathway Program within the Colorado Community Colleges System.

Interested students should discuss TEC programs with parents and a home school counselor/case manager, complete a TEC enrollment form, meet with the TEC representative, and shadow programs of interest. Students must be a minimum of 15 years old and being 16 years old is required for some programs. Students can enroll in either a morning or afternoon 165 minute block at TEC, while concurrently enrolled in a home high school.

V66 CTE Internship (1 semester, up to 15 credits)

Career & Technical Education internship gives students the opportunity to apply concepts learned in the classroom/shop in a real-world work experience. V66 is available with instructor permission to students who are already enrolled at Boulder TEC; students must be at least 16 years old and able to work at least 17 hours per week in positions approved by the instructor. Students receive variable high school credits for paid or unpaid work experience verified through time sheets and/or paychecks, and site visits. This course may be taken more than once.

AUTOMOTIVE COLLISION REPAIR PROGRAM This is a one semester, one and two year certificate program in which students learn state-of-the-art auto body repair technologies such as detailing, damage repair, paint refinishing, shop management skills and customer service.

V01 Collision Repair 1 (30 credits – 2 semesters)

Overview and instruction in the use of air, electric and hydraulic tools and equipment; paint spray equipment and techniques, parts alignment and replacement, and frame repair, detailing, and shop management. Students learn basic skills and techniques in welding, structural and non-structural repair, plastic and adhesive repairs and prep for refinishing.

V02 Collision Repair 2 (30 credits - 2 semesters)

Advanced instruction in the use of air, electric and hydraulic tools and equipment; paint spray equipment and techniques; parts alignment and replacement; and frame repair. Students learn advanced skills and techniques in welding, structural and non-structural and major-damage repair, plastic repair, and refinishing. Students continue studies and practice in shop management skills, customer service and repair cost estimating, specializing in a specific area of interest. Prerequisite: V01.

V03 Automotive Detailing (1 semester - 15 credits)

This one semester course focuses on the detailing aspects of the automotive paint refinishing process. Students will be required to repair, if necessary, paint finishes, clean all dirt and debris from vehicle interior and engine bay, and polish and buff exterior of vehicle thus completing the customer service component of the course. Transfers and tape methods with decals, etc. are demonstrated. Methods and techniques are specialized to enhance painting skills.

AUTOMOTIVE TECHNOLOGY PROGRAM This is a one semester, one and two year certificate program in which students learn state-of-the-art technologies and practices related to testing, diagnosing and repairing of automotive equipment. Year one of the program includes a combination of V04, V86 & V87. Year two includes V93 thru V96, and sequential or concurrent enrollment is required for various certification pathways. Internship (V88) is available to eligible students.

V04 Automotive Motorsports (1 semester - 15 credits)

This is a beginning class specifically related to motorsport technology. Students will understand and demonstrate basic skills in the maintenance of motorsport vehicles focusing on racing systems, engine systems, suspension, driveline systems, brake systems, chassis design, engine repair and rebuild.

V86 Tire & Wheel Technician (1 semester - 15 credits)

This is a beginning class within the automotive field. Students learn to test, diagnose, and repair complex automotive systems. Lessons cover principles associated with shop tools, procedures and safety, basic operation of automotive braking systems, tire & wheel balancing, and steering & suspension systems.

V87 Lube Technician (1 semester -15 credits)

Further instruction in specifics of automotive field. Students learn to test, diagnose, and repair complex automotive systems. Coursework covers shop safety, tool management, basic electricity, battery/charging/starting systems, fluids maintenance, and diagnosis and corrective actions for vehicle drivability.

V88 Automotive Internship (1 semester – up to 15 credits)

Advanced students in TEC's Automotive Technology Program may receive high school credit for internships or paid-work experience in the automotive industry. Boulder TEC Automotive Technology Program is in association with the nationwide Automotive Youth Educational Systems. AYES partners successful students with local automotive manufacturers and dealers for on-the-job experience, as a means of preparing students for entry-level positions or challenging academic options. Course may be taken more than once. Prerequisite: instructor permission.

V93 Automotive Heating & Air Conditioning (1 quarter – 7.5 credits)

The Automotive Heating & Air Conditioning Certification Pathway requires successful completion of both V93 (Automotive Heating & Air Conditioning) and V96 (Automotive Electrical: Advanced). In V93, advanced skills are learned in testing, diagnosing and repairing automotive heating and air conditioning systems. Prerequisite: V86 & V87 or instructor permission.

V94 Automotive Engine Repair (1 quarter – 7.5 credits)

The Automotive Engine Repair Certification Pathway includes successful completion of both V94 (Automotive Engine Repair) and V95 (Automotive Electrical: Basic). In V94, advanced skills are learned in testing, diagnosing and repairing / rebuilding automotive engines. Prerequisite: V86 & V87 or instructor permission.

V95 Automotive Electrical: Basic (1 quarter – 7.5 credits)

In this quarter, basic skills are developed in testing, diagnosing and repairing automotive electrical systems and components. Two certifications are available upon completion of V95: the Automotive **Engine Repair** Certification Pathway (completion of V94 and V95), and the Automotive **Electrical** Certification Pathway (completion of V95 and V96). Prerequisite: V86 & V87 or instructor permission.

V96 Automotive Electrical: Advanced (1 quarter – 7.5 credits)

The Automotive Electrical Certification Pathway includes successful completion of V95 (Automotive Electrical: Basic) and V96 (Automotive Electrical: Advanced). In V96, advanced skills are developed in testing, diagnosing and repairing automotive electrical systems and components. Prerequisite: V86 & V87 or instructor permission.

BANKING / ACCOUNTING PROGRAM This is a one semester, one and two year certificate program including theory/practices of monetary systems, accounting practices, tellering skills, and financial products and services.

V51 Banking and Service Accounting 1 (30 credits - 2 semesters)

Introductory course provides instruction in the history, theory and practices of the Banking and Financial Systems. Students focus on mastering bank tellering skills, accounting skills and customer service. Career exploration, leadership skills, keyboard and 10-key skills practice are included in program activities.

V52 Banking and Service Accounting 2 (30 credits - 2 semesters)

Advanced training in the areas of new accounts, personal credit, and financial services such as lending, investments, and insurance. Career exploration, leadership skills, keyboard and 10-key skills, and internships at local banks are included as part of program activities. Prerequisite: V51.

V53 Applications in Banking (1 semester - 15 credits)

One semester introductory course provides instruction in the history, theory and practices of the banking and financial systems. Students focus on learning bank tellering skills and customer service. Career exploration, leadership skills, keyboard and 10-key skills practice are included in program activities.

CAREER EXPERIENCE PROGRAM

V90 Community Based Career Experience (up to 15 credits)

Offered on a semester basis through Boulder TEC, students receive variable high school credit for work experience which is verified through time sheets, paychecks, and site visits. Student must be 16 years old and successfully work a 17-hour work week for 18 weeks at an agreed upon compensation rate. Students also attend a three-hour workshop and participate in individualized lessons covering work related topics such as resume writing, job interviewing, safety, health, OSHA, liability, sexual harassment/discrimination, work ethics, and personal finance. Special needs students will receive work experience relevant to their established IEP.

COMPUTER INFORMATION SYSTEMS The Boulder TEC CIS Department offers one semester, one and two year certifications in Computer Information Systems, Game Design, Computer Forensics and Computer Hardware and Professional Billing.

V55 Professional Billing (1 semester – 15 credits)

A one semester course that will prepare students for entry level jobs in client billing in the profession services such as medical, legal, contracting, consulting and other service industries. Course will develop the concepts and operations of a computerized billing system.

V56 Computer Forensics (30 credits - 2 semesters)

Instruction to current networking applications, security and forensics, other networking and trouble shooting techniques, basic computer repair and criminology link with content. Students will develop skills to assist in legal proceedings involving recovering evidence using various software methods and extensive hands on applications.

V61 Computer Information Systems 1 (1 semester - 15 credits)

Introduction in microcomputer applications, minor computer set ups and installations, the internet, web pages, and operating systems. Students may take Microsoft exams for applications certifications. Students with computer experience may test-out of the introductory series and obtain advanced placement in the CIS department.

V62 Computer Hardware Essentials (1 semester - 15 credits)

Advanced training in computer hardware repair and installation. Software installation and trouble shooting along with customer service focus are a part of this course. Students will focus on refurbishing computers for non profits and educational institutions. Prerequisite: V61, or instructor permission.

V63 Game Design and Software Production (15 - 30 credits)

Instruction in the processes and tools necessary to build gaming software. Students will design, implement and test computer games using software that allows for basic game creation using a variety of game creation tools. Two part course focusing on flash games and console games for the Xbox 360.

CONSTRUCTION TRADES PROGRAM This is a one and two year certificate program that prepares students for entry or higher-level jobs in construction and related trades. Students work in a lab setting and learn basics of the construction trade with an emphasis on safety, leadership and team work.

V31 Construction Trades 1 (30 credits - 2 semesters)

This course enables students to develop basic skills through the beginning stages of construction. Students learn floor and wall construction, window and door framing, exterior and interior finishing, sheetrock and finishing. Instruction is provided in reading blueprints and building plans, understanding and interpreting building specifications and codes, as well as safe and proper use of hand and power tools. The course emphasizes the importance of work ethics, communication skills, problem solving, and teamwork.

V32 Construction Trades 2 (30 credits - 2 semesters)

Advanced techniques in framing, interior and exterior finishing, installation of ceramic tile are covered in the lab as well as in the classroom. Students complete other related construction modules, such as electrical and plumbing work. Students continue advanced studies in reading blueprints, building plans, specs and codes, leadership, and practice safe and proper use of hand and power tools. Focus continues on teamwork, problem solving and communication skills. Prerequisite: V31.

COSMETOLOGY PROGRAM Certificates offered in Hairstyling, Nail Technology and Esthetician coursework.

Students learn theory and practice in hair cuts, tinting, perms, setting and styling, nail technology and skin care.

V79 Nail Technician (30 + credits)

This one year course is 600 hours of training in manicure technology. Successful students may sit for the Colorado State Board examination; students who pass the exam become licensed in Nail Technology. Coursework includes theory and practice in nail anatomy and health, manicures, pedicures and foot massages, application of artificial nails including acrylic, tips and wraps, nail artistry, safety and customer service. This course requires summer enrollment for licensure.

V81 Esthetician (30+ credits)

This is a one year course of 600 hours of instruction in skin care. Successful students may sit for the Colorado State Board examination; students who pass the exam become licensed estheticians. The course is an intense mix of academic studies and hands-on application of skin care concepts. Instruction is by lecture, demonstration and practice skin care techniques using tools of the trade such as lotions, scrubs, masks, and wax. Students work on models and clients, and learn business etiquette and customer service. This course requires summer enrollment for licensure.

V82 Hairstyling 1 (30+ credits)

Hairstyling is a two year program of 1200 instructional hours. The program prepares students to sit for the Colorado State Board Examination. Hairstylists are licensed by the State of Colorado to provide customers with a variety of personal services related to hair care. Students must complete the required hours of training and pass the required State Board Examination if they wish to become licensed hairstylists. Beginning coursework includes cutting, shampooing, scalp treatments, permanent waves, tinting, styling, iron curling, blow drying, and wig styling. Theory and practice makes use of cosmetology tools, supplies, text books, videos, and lectures. Students work on models and learn business etiquette and customer service. This course requires summer enrollment for licensure.

V83 Hairstyling 2 (30 + credits)

This course is the second year of the Hairstyling Program (see V82). The program prepares students to sit for the Colorado State Board Examination. Hairstylists are licensed by the State of Colorado to provide customers with a variety of personal services related to hair care. Students must complete the required hours of training and pass the required State Board Examination if they wish to become licensed hairstylists. Advanced coursework includes cutting, shampooing, scalp treatments, permanent waves, tinting, styling, iron curling, blow drying, and wig styling. Theory and practice makes use of cosmetology tools, supplies, text books, videos, and lectures. Students work on models and clients, and learn business etiquette and customer service. Prerequisite: V82.

GENERAL AGRICULTURE PROGRAM This is a one semester, one and two year certificate program in which students explore areas of general agriculture and learn the basics of landscape development, maintenance, management, plant and soil care, and nursery and greenhouse management. Semester courses are also offered in the areas of pet grooming and veterinary assistant for students who choose an animal science focus within this program.

V07 Landscape Management 1 (30 credits - 2 semesters)

This course focuses on small engines, equipment safety and usage, and landscape management. Students gain knowledge in turf and grass management and maintenance, plant identification, soils, landscape design, small and large equipment operations, irrigation parts and installation, and landscape design.

V08 Landscape Management 2 (30 credits - 2 semesters)

Advanced instruction in landscape irrigation field practices, landscape drafting and design, landscape construction with grading and drainage concepts, and operation of small and large equipment such as tractor, skid steer, and reel master usage. Students will participate in the design and installation of planting beds, walls, and walkways. Prerequisite: V07.

V09 Greenhouse Management 1 (30 credits - 2 semesters)

This course teaches practices in greenhouse management and greenhouse crops, and nursery garden center management. Classroom lectures and practices are combined with hands-on applications in the greenhouse and in the field. Students gain knowledge in greenhouse crops and production, greenhouse industry and history, soils, plant propagation, growth regulators, classification and identification, pest management, and horticultural business management.

V10 Greenhouse Management 2 (30 credits - 2 semesters)

Instruction emphasizes work in floral design, interior plants, annuals, bulbs, grasses and perennials, including experimental design of plants. Students will propagate, manage, and sell greenhouse plants. Prerequisite: V09.

V72 Veterinary Assistant (1 semester - 15 credits)

This one semester course presents basic knowledge and procedures related to veterinary aide skills including examination and care of animals in a veterinary clinic or animal shelter. Skills taught include caring for animals before and after surgery, assisting with exams and treatments, holding and restraining animals during treatment, sterilizing surgical and other instruments and clinic sanitation. Coursework also covers safety, grooming, nutrition, vital signs and other related veterinary aide tasks. Students may intern or work at various instructor-approved veterinary environments.

V73 Pet Grooming (1 semester - 15 credits)

This one semester course teaches essential skills including holding and restraining animals, cleansing of ears, teeth and eyes, brushing and bathing of most companion pets, and specific hair cuts for particular breeds. Coursework also covers customer service, business telephone etiquette, reception skills, knowledge of temperament of different breeds, and care of house pets such as dogs, cats, ferrets, and birds.

GRAPHIC COMMUNICATIONS PROGRAM This is a one semester, one and two year certificate program where students learn state-of-the-art technologies and practices related to graphic arts and printing.

V44 Applications in Graphics (1 semester - 15 credits)

This one semester course provides an overview in the instruction areas of design and layout, negative output, plating, pressing and finishing of printed work. This is project-based coursework in a highly interactive learning environment. Hands-on instruction and practice in offset printing press operations, multicolor press operations and desktop publishing.

V45 Graphic Communications 1 (30 credits - 2 semesters)

This one year course provides instruction in design and layout, negative output, plating, pressing and finishing of printed work. This is project-based coursework in a highly interactive learning environment. Hands-on instruction and practice in offset printing press operations, multicolor press operations, desktop publishing, and job estimation.

V46 Graphic Communications 2 (30 credits - 2 semesters)

Advanced instruction in offset printing press operations, multicolor press operations, desktop publishing, job estimation and customer service. Students have the opportunity to participate in production work in the Boulder Valley School District Print Shop and practice advanced techniques on actual print jobs. Instruction is hands-on and project-based in a highly interactive learning environment. Prerequisite: V45.

HEALTH OCCUPATIONS PROGRAM Offers a one semester certificate program in Certified Nursing Assistant with a possible clinical opportunity for a second semester. Students learn the basics of assisting in the health care field through classroom instruction, hands on practice and work in a clinical setting.

V70 Nursing Assistant (1 semester - 15 credits)

This one semester course is approved by the Colorado State Board of Nursing, and successful students may sit for the Certified Nursing Assistants Examination. In this course, students develop skills in patient assessment, helping patients with personal hygiene, assisting patients with transfer and mobility, and assessing patients' vital signs. Clinical experiences are required in a nursing home or hospital and the work-study program is a critical part of the program. Classroom theory related to patient care is also required. Students must pass criminal background check and drug screening. BVSD Health Curriculum is included in course of study. This course fulfills the 5 credits in Health required for graduation.

V74 Clinical Internship (variable)

Clinical Internship option is available to students who are 16 years of age and have successfully completed all aspects of the Health Occupations Program, work a 16 hour work week for 16 weeks at a school approved health care facility at an agreed upon compensation rate. Students receive variable high school credits for work experience verified through time sheets, paychecks, and site visits. Prerequisite: completion of V70.

MULTIMEDIA TECHNOLOGY PROGRAM This is a one semester, one and two year certificate program incorporating state-of-the-art software and hardware used to produce multimedia products that may include animation, video, music, 3D and other effects. Products include concept presentations, artwork, photography, video clips, portfolios, stationery, posters, flyers and other marketing and advertising tools.

V37 Multimedia 1 (30 credits - 2 semesters)

Students learn software applications to produce animation, video, music, digital imaging, 3D effects and other special-effects creations. Collaborative projects, presentation skills and work-based competencies are stressed. Development of computer skills in network accounts and file management is also taught. Instruction is self-paced and project-based.

V38 Multimedia 2 (30 credits - 2 semesters)

Advanced coursework in software applications that produce animation, video, music, digital imaging, 3D effects and other special-effects creations. Computer skill in network accounts and file management is strengthened. Students continue focus on project collaboration, presentation skills, and work-based competencies. Instruction is self-paced and project-based. Prerequisite: V37.

V55 D Animation with Game Design (1 semester - 15 credits)

This course introduces 3D modeling and animation using high-end animation software with an emphasis on 3D game design. Students will receive instruction in the tools necessary to build 3D models of various types and animations for gaming applications. Students will also receive exposure to high-end movie editing software for creation of short animation files for games. Course is designed for students with background in game design or who have exposure to animation software packages. Prerequisite: V37, V38, V63 or instructor permission.