



Rampart High School
2024-25 Course Guide

**RAMPART HIGH SCHOOL
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TABLE OF CONTENTS

RAMPART HIGH SCHOOL CURRICULUM GUIDE 2024-2025	5
RAMPART HIGH SCHOOL MISSION STATEMENT	5
ACADEMY SCHOOL DISTRICT TWENTY MISSION STATEMENT	5
INTERNATIONAL BACCALAUREATE (IB) WORLD SCHOOL	5
GRADUATION REQUIREMENTS	6
GENERAL INFORMATION	7
STUDENT CLASSIFICATION	7
WEIGHTED GRADES.....	7
STUDENT TRANSCRIPTS	7
SCHEDULE CHANGE POLICY	7
SCHEDULE CHANGE PROCEDURES	8
ACADEMICS AND ATHLETICS FOR HIGH SCHOOL ELIGIBILITY	8
NCAA ELIGIBILITY	8
POST SECONDARY EDUCATION, FINANCIAL AID AND EMPLOYMENT	9
CEPA (Concurrent Enrollment Options Act)*	9
CAREER EDUCATION PROGRAM	9
ESL (English as a Second Language)	10
ADVANCED PLACEMENT PROGRAM (AP)	10
SPECIAL EDUCATION	11
ARE YOU NEW TO THE DISTRICT?	11
MATERIALS FEES.....	11
NATIONAL EXAM SCHEDULE	12
COLLEGE ADMISSION RECOMMENDATIONS AND OTHER POST-HIGH SCHOOL OPTIONS	12
LEGEND	13
INTERNATIONAL BACCALAUREATE PROGRAMME	14
INTERNATIONAL BACCALAUREATE MIDDLE YEARS PROGRAMME (GRADE 10)	16
MYP FRESHMEN AND SOPHOMORES	17
LANGUAGE AND LITERATURE	18
WORLD LANGUAGE	18
INDIVIDUALS AND SOCIETIES	21
SCIENCES.....	22
MATHEMATICS	23
INTERNATIONAL BACCALAUREATE	24
Group 1 Language and Literature.....	29
Group 2 Language Acquisition.....	29
Group 3 Individuals and Societies.....	31
Group 4 Sciences.....	32
Group 5 Mathematics	34
Group 6 The Arts.....	35
Theory of Knowledge (TOK).....	37
COURSE OFFERINGS	38
THE ARTS	39
CTE.....	49
ENGLISH	59
MATHEMATICS	63

PHYSICAL EDUCATION	69
SCIENCE.....	75
INDIVIDUALS & SOCIETIES.....	82
WORLD LANGUAGE.....	87
SPECIAL PROGRAMS	94
AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (AFJROTC)	96
ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID).....	98
RAMPART EARLY COLLEGE ACADEMY (RECA).....	99
CAREER START	99
D20 COLLEGE & CAREER SPECIALIZED PROGRAMS	100
D20 LIBERTY HIGH SCHOOL CTE CAMPUS PATHWAYS.....	101
INTERNATIONAL SALON AND SPA ACADEMY (ISSA)	103
HIGHER EDUCATION ADMISSIONS REQUIREMENTS	104
GRADUATION REQUIREMENTS	104

Last Revised February 12, 2024

RAMPART HIGH SCHOOL CURRICULUM GUIDE 2024-2025

This curriculum guide has been developed to assist you in planning for a successful high school experience. The guide contains the requirements that you must meet in order to graduate from Rampart High School. It also contains brief descriptions of all the courses offered and information regarding student expectations at Rampart High School.

Study the graduation requirements and course descriptions carefully with your parents before planning your courses. Your counselor and teachers will assist you with your decisions. Your choice of courses should be based upon graduation requirements, post-high school plans, teacher recommendations, interests and abilities, and your past achievements.

It is important to note that some of the courses listed in this guide may not be offered due to insufficient student registration.

ALL NEW STUDENTS TO THE DISTRICT should:

1. Start the registration process by navigating to the Academy School District Twenty web site www.asd20.org. Click on “Enroll in District 20” and follow the directions.
2. After completing the online registration, take all paperwork to the District Twenty Education and Administration Center at 1110 Chapel Hills Drive, Colorado Springs, CO 80920 (719) 234-1200.
3. After completing the above steps, call Rampart High School counseling office (719-234-2034) to make an appointment to schedule classes.
4. Bring a withdrawal form with grades and a current transcript from their previous school to help ensure correct placement.

RAMPART HIGH SCHOOL MISSION STATEMENT

Rampart High School, an inclusive learning community dedicated to excellence and growth, prepares, and empowers students to be leaders through the exploration of and engagement in rigorous and innovative educational and extra-curricular experiences that cultivate character in a respectful and safe environment.

ACADEMY SCHOOL DISTRICT TWENTY MISSION STATEMENT

The mission of Academy School District 20 is to educate and inspire students to thrive.

INTERNATIONAL BACCALAUREATE (IB) WORLD SCHOOL

Rampart High School is an International Baccalaureate (IB) World School. All students in 10th grade access the International Baccalaureate Middle Years Programme (MYP). In the 11th and 12th grade, students may pursue the IB Diploma Programme, a “Full Diploma” Candidate option or “Course” Candidate.

The International Baccalaureate experience is different from other curricula because it:

- Encourages students of all ages to think critically and challenge assumptions
- Encourages students of all ages to consider both local and global contexts
- Develops multilingual students.

The International Baccalaureate aspires to help schools develop well-rounded students with character who respond to challenges with optimism and an open mind, are confident in their own identities, make ethical decisions, join with others in celebrating our common humanity and are prepared to apply what they learn in real-world, complex, and unpredictable situations. Students who access the IB will:

- be encouraged to think independently and drive their own learning
- take part in programmes of education that can lead them to some of the highest-ranking universities around the world
- become more culturally aware, through the development of a second language
- be able to engage with people in an increasingly globalized, rapidly changing world.
- ask challenging questions
- think critically
- develop research skills proven to help them in higher education.

GRADUATION REQUIREMENTS

District Twenty believes that all students who graduate from our schools should have a firm foundation in the core areas of English, world languages, mathematics, science, and a comprehensive background in the fine arts, physical education, and health. To be prepared for postgraduate careers or higher education, students should select courses which are related to their plan and are academically demanding. The coursework outlined in this policy is the minimum required for earning a diploma; students should strive to challenge themselves by exceeding the requirements whenever possible in accordance with their post-graduation goals. As students plan their four years of high school, they are encouraged to call on the advice and counsel of their parents/guardians and school officials. Graduation requirements are based on the units of credit earned in grades 9 – 12. A unit of credit is defined as the amount of credit given for the successful completion of a course per semester. All courses are 1 credit per semester with the exception of student assistant, library assistant, and guided study hall and Freshman Success, which are .5 credit courses.

ACADEMY DISTRICT 20 GRADUATION REQUIREMENTS

Students must:

I. Meet coursework requirements. These requirements, reflect a well-rounded sequence of courses that prepares D20 graduates for a wide range of post-secondary options.

II. Demonstrate proficiency in both math and English language arts (RWC) as required by the Colorado Department of Education.

TOTAL CREDITS REQUIRED	50***
ENGLISH	8
MATH ALGEBRA (required) GEOMETRY (required)	6
SCIENCE	6
SOCIAL SCIENCE U.S. HISTORY (required) CIVICS (required)	6
WORLD LANGUAGE	2
CORE ELECTIVES (includes English, World Language, Math, Science and Social Science)	6
PHYSICAL EDUCATION	3
HEALTH	1
ARTS (includes visual and performing arts)	1
UNRESTRICTED ELECTIVES	11

Math and RWC Proficiency

Students may demonstrate proficiency in math and/or RWC by any one of the following:

- meeting the established minimum score on one of CDE’s approved assessments.
- obtaining an approved industry certificate that aligns with their individual career and academic plans (ICAP).
- obtaining a C- or higher in an approved concurrent enrollment, college level course that aligns with their ICAP
- obtaining a passing score on a capstone project approved for math and/or RWC that aligns with their ICAP.

In order to be eligible for participation in commencement exercises, students must complete all graduation requirements by the date of graduation.

COLORADO HIGHER EDUCATION ADMISSION RECOMMENDATIONS

(Courses marked with an “**H**” in this guide meet the HEAR recommendations)*

Note: These credits represent minimum requirements at four-year public institutions and not for the state’s community colleges, which are open admissions. The units have been adjusted to reflect the credit structure for Academy School District 20. Additionally, these credits are not meant to imply or replace Academy School District 20 graduation requirements.

*Please see detailed [HEAR information](#) at the back of this guide. More information can be found at: <https://cdhe.colorado.gov/higher-education-admission-recommendations> or <https://cdhe.colorado.gov/admissions-eligibility>

Credit may not be issued for driver’s education or religious classes taken at another school.

GENERAL INFORMATION

STUDENT CLASSIFICATION

Students are classified based on the number of years they have spent in school. Thus, all students in their first year of high school are classified as freshmen; all students in their second year are classified as sophomores; and all students in their third year are classified as juniors. Students will be classified as seniors even though they may have less than 35 credits.

The following chart shows the number of credits a student should earn each year in order to stay on track to graduate within four years. Privileges related to senior status—including but not limited to IDs and parking permits—are based on this credit-earned system. Students must have 34 credits prior to the start of their senior year in order to participate in senior activities.

CREDITS EARNED	CLASSIFICATION
9 or fewer	FRESHMAN
10 – 21	SOPHOMORE
22 – 35	JUNIOR
35+	SENIOR

WEIGHTED GRADES

For students transferring into a District 20 high school, from either within District 20 or from another district, credits will be weighted only if the transferring course meets one of the following criteria:

- The credit will be weighted if the course is an authorized Advanced Placement or International Baccalaureate Diploma Programme course.
- The credit will be weighted for a course that is a district-wide weighted course.
- The credit will be weighted for a course if the specific District 20 school into which the student is transferring offers the same course or one with a similar title and description. If the school into which the student is transferring does not offer the same course as that with a weighted credit from a previous school, the credit will be unweighted.

STUDENT TRANSCRIPTS

Students should recognize the importance of their school records for financial aid and admission to college. A student's record is the accumulation of efforts from ninth grade through the twelfth grade (Middle school credits in world language **WILL NOT** be reflected on the high school transcript but will count toward the world language graduation requirement; however, they **WILL NOT be factored into the high school GPA**. Students will still need to complete **50 high school credits in order to graduate**). Successful completion of middle school Algebra 1 or Geometry will allow a student to continue on to higher level math courses at the high school level **BUT WILL NOT count toward the 6 math credits required for D20 graduation and WILL NOT be reflected on the high school transcript**. Grade point average and class rank are figured on courses taken in ninth, tenth, eleventh, and twelfth grades. A student's record includes the grade point average, courses completed, and standardized test results. A request for an official transcript can be made through a student's Naviance account. There is a minimum processing time of 3 business days for transcript requests.

SCHEDULE CHANGE POLICY

Developing student responsibility is a goal that helps guide educational decision-making. Since students have the opportunity to choose most of their classes and build their schedules, it is expected that they will give careful consideration to this process and be responsible for the decisions they make. Please note that schedule changes could affect your athletic/activities eligibility and overall G.P.A.

SCHEDULE CHANGE PROCEDURES

Schedule changes will be limited to (1) fulfilling graduation requirements and/or (2) making teacher recommended changes - this change will include level changes due to credits being earned over the summer in summer school or the loss of a credit due to a failing grade. Students that meet these criteria will have the opportunity to request a schedule change by contacting their counselor via email or scheduling an appointment in person.

After the 30th day of the semester, students who withdraw from a course will receive a W/F (withdraw/fail) for a semester grade in the course they are dropping, unless they have been educationally misplaced or have some extenuating circumstances, e.g., hospitalization, or long-term illness, etc. The W/F will be calculated into the total grade point average (G.P.A.) according to school policy. AP students should refer to the Rampart High School Course Guide for further details.

ACADEMICS AND ATHLETICS FOR HIGH SCHOOL ELIGIBILITY

Students must:

- Have been enrolled in at least 5 full credits that apply to graduation requirements and have not failed more than one credit the semester prior to athletic participation.
- Be enrolled in 5 credits the semester of sports participation and not be failing more than one credit (two .5 credits do not equal one full credit, so Student Assistant credits do not count toward eligibility).

NCAA ELIGIBILITY

To be a qualified NCAA-eligible student athlete, students must meet requirements for coursework and grade point average. Student athletes who intend to compete in college should discuss their plans and these requirements with their grade-level counselors. For detailed information, visit the [NCAA Eligibility Center website](#).

Students who are interested in competing in college athletics at the Division I or II level should complete an NCAA Eligibility form before the end of their junior year. This form is to be completed on-line at [NCAA Eligibility Center](#).

	Division I	Division II
English Core	4 years	3 years
Math Core (Algebra I or higher level)	3 years	2 years
Natural Science (Including one year of lab science)	2 years	2 years
Extra years of English, math, or natural science	1 year	3 years
Social Science	2 years	2 years
Extra core courses (from any category above, foreign language, non-doctrinal religion or philosophy)	4 years	4 years
Total	16 core courses	16 core courses

In addition:

- For Division I schools, a student must have at least a 2.20 GPA in the above Core Units
- For Division II schools, a student must have at least a 2.20 GPA in the above Core Units
- Students should check to see which RHS courses have been approved by the eligibility center. To do so, log onto [NCAA Eligibility Center](#) and use our school code which is **060294**. Any courses taken pass/fail are given a grade of "D" in the GPA.
- Students should access the website if they have questions or meet with the College Counselor or their Athletic Director.

All courses marked with a ► in this guide meet NCAA requirements.

POST SECONDARY EDUCATION, FINANCIAL AID AND EMPLOYMENT

In the Counseling Department, one counselor focuses on the needs of seniors as they make plans for post-secondary education and training. Help is given in accessing information about various programs and schools, completing applications, researching scholarships, and finding resources for financial aid.

CEPA (Concurrent Enrollment Options Act)*

- The Concurrent Enrollment Programs Act (CEPA) (CRS 22-35-101 et seq.) makes it possible for eligible students in grades 9 through 12 who are under the age of 21 and officially registered with Academy District 20 to simultaneously enroll in their local high schools and in qualified institutions of higher learning. Interested students must meet eligibility and application criteria as identified by the statute and further defined by the district and must involve their counselor in the process from the outset.
- The student must establish an Individual College and Academic Plan (ICAP) that lists an intentional sequence of courses reflecting progress towards graduation and postsecondary goals. The requested college course(s) must align with the student's ICAP and cannot replace a corresponding course available in the district.
- The student must demonstrate college readiness by meeting minimum scores on the Accuplacer, SAT or ACT, maintaining a 2.5 high school GPA, and satisfying any prerequisites as defined by the institution of higher learning.

Students may apply for CE courses with the online concurrent enrollment application.

- The student should begin the application process with their counselor well in advance of deadlines. The student should submit their approved application to Academy District 20 Education and Administration Center (EAC) by November 1st for the following spring semester and by April 1st for the following fall semester.
- After the student submits their application, it will be sent to the parent/guardian's email from the application for approval.
- After the parent/guardian signs to approve the application, it will be sent to the counselor for approval.
- Final approval and notification of status will be communicated to the student by an administrator from the EAC.
- The student must reapply for new CE courses each semester.
- The student must register for the Colorado Opportunity Fund (COF) at <https://cdhe.colorado.gov/students/how-do-i/college-opportunity-fund-cof-stipend> to establish eligibility for the state tuition stipend that reduces the student's tuition costs.
- For an approved applicant, **the district shall pay**, directly to the institution of higher learning, the prevailing community college rate per credit hour whether the student attends a 2 year or 4-year college. **The student shall pay** to the institution of higher learning any tuition in excess of the community college rate plus fees, additional costs, books, and transportation, etc.
- International exchange students are ineligible to apply for concurrent enrollment options.
- College courses taken under the Concurrent Enrollment Programs Act program will count for high school credit, and grades earned will appear on the high school transcript and will factor into the cumulative grade point average.

CAREER EDUCATION PROGRAM

ICAP – The Individual Career & Academic Plan (ICAP) assists students with post-secondary planning to ensure that all students are prepared to make informed decisions about their futures. ICAP is a portfolio where students learn about and record such information as learning styles, interest inventory results, awards, and community service records.

DEVELOPMENTAL SEQUENCE

9th Grade

1. Multiple Intelligence and Learning Styles Inventory assists students in identifying how a student learns best.
2. Study skills and learning “how to learn” are emphasized in class and through counseling.
3. Information on a college preparatory plan and the vocational programs available at Rampart.
4. Individual Career & Academic Plan (ICAP)

10th Grade

1. All students take state PSAT 10 in the spring.
2. Update student's Individual Career & Academic Plan (ICAP).

11th Grade

1. Update student's Individual Career & Academic Plan (ICAP) portfolio.
2. Students are encouraged to take the national PSAT in the fall and SAT in the spring for the national merit scholarship. All juniors will take the state SAT in April.

12th Grade

1. Update student's Individual Career & Academic Plan (ICAP) portfolio.
2. Job Shadowing – opportunities will be arranged for students as needs arise and resources are available. Parents can also serve as a resource for these opportunities.
3. ASVAB – students are encouraged to take the Armed Services Vocational Aptitude Battery.
4. Meet with the College and Career Counselor to discuss future college and career plan.

ESL (English as a Second Language)

District 20 offers specialized courses for students who do not speak English as their primary language. Rampart is the district's high school for English as a Second Language (ESL) student. Rampart's ESL program offers six levels of language acquisition instruction for basic, intermediate, and advanced ESL students. Achieving proficiency in listening, speaking, reading, and writing is emphasized, so that all ESL students can be successful in all academic courses.

ADVANCED PLACEMENT PROGRAM (AP)

Students considering one or more AP classes should be sure that they have met the prerequisites for the AP class in question and complete any applicable summer assignments. To ensure that students have ample time to attempt the rigorous curriculum found in AP classes, without having to worry about W/F penalties, AP students may request level changes for AP drops/level changes until the 19th school day of the semester. After that, only students with extenuating circumstances, e.g., hospitalization, or long-term illness, etc., will be able to change an AP class without the W/F being applied to their transcript and GPA. Please see Mrs. Anthony with any questions about AP enrollments.

The **Advanced Placement Program (AP)** gives students an opportunity to participate in college-level curricula, and to take college level exams while still in high school. AP courses give access to in-depth and accelerated learning at the college level. They differ from non-AP classes with respect to the kind of textbook, the range and depth of topics covered, and the amount of time and effort required of the student. Thirty-eight courses are offered worldwide by nearly 14,000 high schools. Rampart AP students are strongly encouraged to take the College Board's AP Examination on a national test day in May. Depending on the scores students earn, they may be granted college credit, advanced placement in a college class, or both. To learn more about a college's policies regarding AP credits, consult the college's Director of Admissions, catalog, or website. Additionally, more information about the Advanced Placement courses and the College Board program can be found at <http://apcentral.collegeboard.org>. All AP examinations contain both multiple-choice and free response (essay) questions. Most of the examinations will take approximately three hours, and they must be taken on the day determined by College Board. Every examination receives an overall grade on a 5-point scale: 5 = Extremely Well Qualified; 4 = Well Qualified; 3 = Qualified; 2 = Possibly Qualified; and 1 = No recommendation.

In keeping with D20 Board policy concerning courses with weighted grades, any student who does not take the AP exam will be given an appropriate alternative assessment determined by the teacher to be equal in rigor and challenge. Students wishing to enroll in AP courses at Rampart are those who intend to take the AP exams in May. Information about exam registration and payment is available from Trisha Anthony, the AP Coordinator at trisha.anthony@asd20.org or (719) 234-8421. The cost of each AP exam is approximately \$105 (annually set by College Board and may be subject to increases which may not be reflected by the time this course guide is published). There is financial assistance available upon qualification students will register for their exam during fall semester, and payment is collected through Infinite Campus or through the Rampart bookkeeping office. Students have until November 1st to opt out of taking the exam and must notify Mrs. Anthony by this date.

SPECIAL EDUCATION

Programming for students with special education services reflect our philosophy that all students benefit from active involvement in the larger community of Rampart High School and the Pikes Peak Region.

Rampart High School provides services to students with Individual Educational Plans (IEPs). Each student is assigned a special education case manager who manages the services and resources for the student.

Services, accommodations and modifications are provided as outlined in the student's Individual Education Plan (IEP).

Students are scheduled into courses based on strengths and needs. Specific intervention classes, taught by special education teachers, are available for credit, based on needs outlined in the student's IEP.

District 20 Transition Services are available for some students with active IEP's who have continuing transition needs, to the end of the semester in which the student turns 21 years of age. District 20 Transition Services (Bridges) provides for continuing education and training, transitional life skills, coordination of community services and /or vocational/work experiences.

IDENTIFYING STUDENTS WITH SPECIAL NEEDS:

1. A pre-referral meeting is initiated through the special education department chair by a staff interventionist, parent, administrator, or other school staff involved with the student.
2. As a result of the pre-referral meeting which includes a multidisciplinary team, a referral may be made to special education staff for an evaluation based on interventions and progress monitoring within general education and area(s) of suspected disabilities.
3. If an evaluation is initiated, an initial eligibility meeting follows within 60 calendar days. At the meeting, the student's eligibility for special education services is determined based on Colorado Department of Education criteria.
4. If a student is determined eligible for Special Education, an individualized education plan is developed, implemented, and reviewed annually.

ARE YOU NEW TO THE DISTRICT?

1. Register at the Education and Administration Office (District 20 Central Administration). Identify your student as having a current IEP and special needs.
2. After District 20 Central Administration has indicated which school your student will be attending, schedule an appointment with an RHS counselor, indicating that your student has an active Special Education IEP. The counselor will involve the appropriate special education staff.
3. At minimum, bring to the appointment a copy of the current IEP. Any other special education records you may have will also be very useful, such as psychological reports, health reports, academic, and vocational assessments, etc.
4. If the IEP is from outside Colorado, we may hold a full review to determine if the student qualifies for special education services in Colorado.

It is our desire to make your student's transition from their former school to Rampart High School as smooth as possible.

MATERIALS FEES

Please note that fees listed are subject to change without notice. Revisions to the course guide will be made as needed.

NATIONAL EXAM SCHEDULE

PSAT/National Merit Scholarship

Qualifying Test

(Recommended for juniors)

October 2024

NATIONAL SAT (Colorado)

(Juniors ONLY)

April 2024

NATIONAL ACT ASSESSMENT

(Recommended for juniors & seniors)

(Anticipated)

February 10, 2024

April 13, 2024

June 8, 2024

July 13, 2024

NATIONAL SAT ASSESSMENT

(Recommended for juniors & seniors)

(Anticipated)

March 9, 2024

May 4, 2024

June 1, 2024

COLLEGE ADMISSION RECOMMENDATIONS AND OTHER POST-HIGH SCHOOL OPTIONS

We encourage Rampart students to plan for post-high school education. Listed below are recommended admission criteria by level of selectivity. Requirements vary greatly (by major, etc.), so students should consult college websites and view books, attend college fairs, and visit with college representatives. Consult with the college counseling department for information on how to access these resources. Refer to the back of this guide for more information and a complete list of courses that qualify for Higher Admission Requirements.

IN-STATE FOUR-YEAR PUBLIC COLLEGES

Colorado Pre-Collegiate Curriculum

The Pre-Collegiate Curriculum is a combination of courses in the academic areas that students should take for admittance to Colorado's four-year public colleges or universities.

English	4 years, 8 credits
Math	4 years, 8 credits – Algebra I, Geometry, Algebra II, or equivalents
Natural/Physical Sciences	3 years, 6 credits
Social Sciences	3 years, 6 credits – 1 year of U.S. or World History
Academic Electives	2 years, 4 credits – Additional courses from above areas and/or world languages.

World Language Most four-year colleges in Colorado recommend at least two years of the same world language. The University of Colorado system and Colorado State University requires two or three years, depending on the field of study. *Not all college accept ASL as world language. Check individual colleges for requirements.

Index Scores Four-year public universities and colleges in Colorado utilize the Grade Point Average and best ACT/SAT scores to calculate an index number which is a basic requirement for admission.

Different schools have different index number requirements. Your counselor has a chart showing these scales.

MOST HIGHLY SELECTIVE UNIVERSITIES

Minimum of 36 high school credits:

English	4 years – With a continued emphasis on writing
World Language	2-3 years – All study completed in one language
Math	4 years – Preferably including an introduction to Calculus
Science	3 years – To include two to three years of laboratory science; recommended: biology, chemistry & physics
Social Science	3 years – To include one year of U.S. History
Arts	1 year

College requirements for test scores and grade-point averages will vary from the most difficult (above) to non-competitive, where virtually all applicants are accepted regardless of rank/GPA/scores.

Admissions personnel will take into consideration the rigor of your curriculum, personal essay, letters of recommendation, extra-curricular activities, and community service activities. PLEASE VISIT INDIVIDUAL COLLEGE WEBSITES OR CONTACT THAT SCHOOL FOR ALL THE SPECIFICS, including application deadlines.

OTHER GREAT OPTIONS

APPRENTICESHIP: Generally, a four-year program offering journeyman Certificates and Associate Degrees. Apprentices receive paid on-the-job-training and enroll in technical courses at community colleges.

MILITARY SERVICE: Some students graduate and immediately enlist in the military to serve our country. Visit www.military.com or see your local recruiter for more information.

LEGEND

H *Indicates courses meet the HEAR requirements.*

▶ *Indicates courses meet NCAA requirements.*

@ *Indicates the class may be eligible for dual credit.*

MYP = Middle Years Programme

SL = Standard Level

** Indicates special instructions.*

IB = International Baccalaureate

DP = Diploma Programme

HL = Higher Level

INTERNATIONAL BACCALAUREATE PROGRAMME



The International Baccalaureate (IB) Programme offers a high quality and challenging educational programme for a worldwide community of schools. As of December 2020, there were over 7,200 programmes being offered worldwide, across over 5,400 schools in 158 countries.

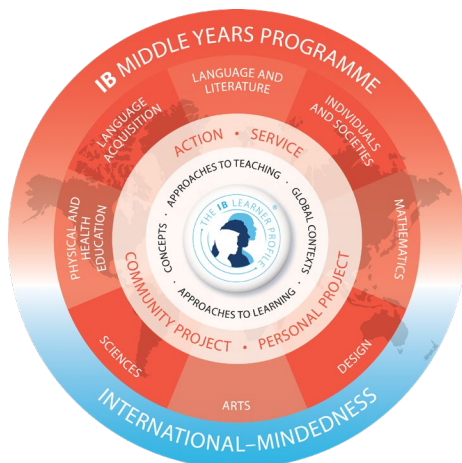
The driving force behind the IB is a philosophy about the nature of education, which is expressed in the IB’s mission statement, in the IB learner profile and in the fundamental principles on which the curriculum is based and which continue to inspire its development.

Sophomore IB students are in the final year of the Middle Years Programme (MYP) and take between six and eight MYP subjects: English (Language and Literature), Language acquisition (a second language), Individuals and societies (Social Studies), Sciences, Mathematics, Arts, and Physical and Health Education. The MYP encourages international-mindedness and a positive attitude to learning and emphasizes the development of the whole student—physically, intellectually, emotionally, and ethically. As a culmination of the MYP, students will participate in the Personal Project. The Personal Project is a student-centered and age-appropriate practical exploration in which students consolidate their learning through an independent learning experience. This experience encourages students to practice and strengthen skills in self-management, research, communication, critical and creative thinking, and collaboration; the incorporation of these skills connects classroom learning engagements with personal experience to develop their own interests for lifelong learning.

The Diploma Programme provides a challenging, internationally focused, broad, and balanced educational experience for students aged 16 to 19. Full diploma students are required to study six subjects and a curriculum core concurrently over two years. Course candidates take between one and five DP courses according to their own interests and are eligible to receive college credit in each of those, while full diploma students pursue the prestigious IB diploma. Either way, the programme is designed to equip students with the basic academic skills needed for university study, further education and their chosen profession as well as developing the values and life skills needed to live a fulfilled and purposeful life.

Junior and senior IB students are in the Diploma Programme. The three core elements are: Theory of knowledge, the extended essay, and Creativity, activity, and service. Students take courses in six subject groups: Studies in Language and Literature (English), Language Acquisition (world language), Individuals and Societies (social science), Sciences, Mathematics, and the Arts; three courses are taken at the Higher Level (HL) and three courses at the Standard Level (SL). External examinations are administered upon completion of these courses and are marked by IB examiners around the world. Full diploma students also complete internal assessments (IA) for each course. The International Baccalaureate Diploma is awarded to students who have successfully completed their examinations and internal assessments, and the three core elements listed above. The IB Diploma Programme curriculum provides a balance of breadth and depth, encourages international-mindedness, and requires involvement beyond the classroom. For additional information on the details of the IB programme, go to www.ibo.org and the Rampart High School IB Website.

The learner profile is the embodiment of the IB mission statement in 10 attributes and aims to define the type of learner the IB aspires to develop in all of its programmes. It is intended to provide a focus for reflection on what is most important in IB World Schools and the IB teaching profession, which is why it is located at the heart of the programme. The IB learner profile is to develop internationally minded people who, recognizing their common humanity and shared guardianship of the planet help to create a better and more peaceful world.



AS IB LEARNERS WE STRIVE TO BE:

- INQUIRERS:** They develop their natural curiosity. They acquire the skills necessary to conduct inquiry and research and show independence in learning. They actively enjoy learning, and this love of learning will be sustained throughout their lives.
- KNOWLEDGEABLE:** They explore concepts, ideas and issues that have local and global significance. In so doing, they acquire in-depth knowledge and develop understanding across a broad and balanced range of disciplines.
- THINKERS:** They exercise initiative in applying thinking skills critically and creatively to recognize and approach complex problems, and make reasoned, ethical decisions.
- COMMUNICATORS:** They understand and express ideas and information confidently and creatively in more than one language and in a variety of modes of communication. They work effectively and willingly in collaboration with others.
- PRINCIPLED:** They act with integrity and honesty, with a strong sense of fairness, justice, and respect for the dignity of the individual, groups and communities. They take responsibility for their own actions and consequences that accompany them.
- OPEN-MINDED:** They understand and appreciate their own cultures and personal histories, and are open to the perspectives, values and traditions of other individuals and communities. They are accustomed to seeking and evaluating a range of points of view and are willing to grow from the experience.
- CARING:** They show empathy, compassion and respect towards the needs and feelings of others. They have a personal commitment to service, and act to make a positive difference to the lives of others and to the environment.
- RISK-TAKERS:** They approach unfamiliar situations and uncertainty with courage and forethought and have the independence of spirit to explore new roles, ideas, and strategies. They are brave and articulate in defending their beliefs.
- BALANCED:** They understand the importance of intellectual, physical, and emotional balance to achieve personal well-being for themselves and others.
- REFLECTIVE:** They give thoughtful consideration to their own learning and experience. They are able to assess and understand their strengths and limitations in order to support their learning and personal development.

International Baccalaureate® Mission Statement

The International Baccalaureate® aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

To this end the organization works with schools, governments, and international organizations to develop challenging programmes of international education and rigorous assessment.

These programmes encourage students across the world to become active, compassionate, and lifelong learners who understand that other people, with their differences, can also be right.

ACADEMIC POLICY

Philosophy

The IB Programme offers an academically rigorous curriculum for students who

- Are committed to an international education
- Think for themselves and are self-motivated
- Take an active part in our school and our local and global community
- Are committed to personal excellence

INTERNATIONAL BACCALAUREATE MIDDLE YEARS PROGRAMME (GRADE 10)

Rampart High School is an inclusive Middle Years Programme (MYP) for all students enrolled in 10th grade.

The MYP is a challenging framework that encourages students to make practical connections between their studies and the real world. The MYP curriculum framework comprises eight subject groups, providing a broad and balanced education for early adolescents.

The MYP requires at least 50 hours of teaching time for each subject group, in each year of the programme. In the final year of the programme, carefully-defined subject group flexibility allows students to meet local requirements and personal learning goals. The MYP experience culminates with the completion of the Personal Project.

Research shows that students participating in the MYP:

- build confidence in managing their own learning
- learn by doing, connecting the classroom to the larger world · outperform non-IB students in critical academic skills
- consistently have greater success in upper level IB examinations · thrive in positive school cultures where they are engaged and motivated to excel
- develop an understanding of global challenges and a commitment to act as responsible citizens.

Personal Project:

The Personal Project is the culminating experience in the Middle Years Programme. The MYP Personal Project is a student-centered and age-appropriate practical exploration. This is a long-term project designed as an independent learning experience of approximately 25 hours.

The personal project assesses students' Approaches to Learning skills for self-management, research, communication, critical and creative thinking, and collaboration.

The personal project encourages students to practice and strengthen their Approaches to Learning skills, to connect classroom learning engagements with personal experience, and to develop their own interests for lifelong learning.

The project offers many opportunities for differentiation of learning and expression according to students' individual needs. The personal nature of the project is important; the project should revolve around a challenge that motivates and interests the individual student.

Students are supported through Personal Project course, however, some of the project needs to be completed at home. Successful completion of the project results in half of an elective credit.

For more information on the Middle Years Program, please contact:

Avalon Manly, RHS IB Coordinator avalon.manly@asd20.org

For more information on the Middle Years Program Personal Project, please contact:

Lindsay Schneider, RHS IB/MYP Personal Project Coordinator lindsay.schneider@asd20.org

MYP FRESHMEN AND SOPHOMORES

Overview of Courses

LANGUAGE AND LITERATURE

LANGUAGE ACQUISITION

INDIVIDUALS AND SOCIETIES

SCIENCES

MATHEMATICS

LANGUAGE AND LITERATURE

The Middle Years Programme Language and literature classes build on experiences in language learning our students have experienced throughout their lives so far. Our courses are inquiry-driven and expose students to a variety of texts from around the world, focusing on fundamental skills that cross the boundaries of traditional disciplines. Students continue to hone their reading, writing, and communicating skills through our 10th grade English class.

MYP ENGLISH II

Course 050055 A & B

Grade: 10

Prerequisite: MYP English I

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (English) **H** ►

This course will meet the English requirement for 10th grade. In addition to the components of American Literature, MYP English II will include Literature of America. Students will develop and refine higher level thinking skills in addition to refining strong oral and written communication skills in preparation for IB Language A1 courses as well as for the full IB Diploma Programme. **This is the RHS Sophomore English course.**

WORLD LANGUAGE

The overarching aim of teaching and learning languages is to enable students to become critical and competent communicators. Language acquisition encourages students to gain competence in a modern language other than their mother tongue, with the long-term goal of balanced bilingualism. Our language program is a systematic approach across the span of four-to-five years, which promotes world language acquisition and proficiency for functional communication in a variety of situations. The course work is designed for highly motivated learners; it is expected that students' progress more rapidly and acquire a higher level of proficiency than in a regular foreign language course. Authentic situations and true-to-life communication are learner-centered activities which provide for the daily development of the four basics of language learning: listening, speaking, reading, and writing. International understanding, cultural awareness, and historical knowledge are enhanced through cultural readings and study of the daily life and behavior of people. Students should be prepared daily to participate orally in class and to complete daily homework assignments. Class is conducted in the target language as much as possible according to the level of study.

MYP FRENCH I

Course 062012 A & B

Grades: 9 – 12

Prerequisite: None

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (world language) **H** ►

This course introduces and develops the language skills of listening, speaking, reading, and writing through a basic text and a variety of supplemental reading and enrichment activities. Students will learn to communicate in French and will be introduced to the life and culture of the French world. Class is conducted in the target language as much as possible according to the level of study. Students in this course will complete the first third of French 1. Additionally, teachers use the IB/MYP aims and objectives along with the learner profile, which help develop inquiring, knowledgeable and caring young people. Global contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet and help to make connections between the disciplines. **Textbook: Discovering French Blue.**

MYP FRENCH II

Course 062014 A & B

Grades: 9 – 12

Prerequisite: MYP French I and instructor approval

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (world language or core elective) **H** ►

This class is an accelerated second-year French course building on skills developed in French I. Students continue to develop their listening, speaking, reading, and writing skills. Grammatical structure and vocabulary important for developing communicative competency will be continually reinforced by means of various drills and activities. The culture of French speaking countries continues to be explored. **Textbook: Discovering French White.**

MYP FRENCH III**Course 062016 A & B****Grades:** 9 – 12**Prerequisite:** MYP French II and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

MYP French III is designed for highly-motivated students to build upon the four basic skills acquired in French I and II. Students are expected to understand standard speech on familiar topics and should be able to respond. This course will enlarge and refine the students' vocabulary and improve their ability to understand and respond to the spoken and written language. The students continue to explore different French cultures and work intensively on oral expression to improve their fluency. **Textbook: Discovering French Red.**

FRENCH 4**Course 062004 A & B****Grades:** 9 – 12**Prerequisite:** MYP French III and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

In this course students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this course.

MYP SPANISH I**Course 062086 A & B****Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language) **H** ►

This course introduces and develops the language skills of listening, speaking, reading, and writing through a basic text and a variety of supplemental reading and enrichment activities. Students will learn to communicate in Spanish and will be introduced to the life and culture of the Spanish world. Class is conducted in the target language as much as possible according to the level of study. Students in this course will complete the first third of Spanish 1. Additionally, teachers use the IB/MYP aims and objectives along with the learner profile, which help develop inquiring, knowledgeable and caring young people. Global contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet and help to make connections between the disciplines.

MYP SPANISH II**Course 062087 A & B****Grades:** 9 – 12**Prerequisite:** MYP Spanish I and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

This course is an accelerated second-year Spanish program which builds on skills developed in MYP Spanish I. Students continue to develop their listening, speaking, reading, and writing skills. Grammatical structure and vocabulary needed for developing communicative competency will be continually reinforced by means of various drills and activities. The culture, history, and geography of Spanish-speaking countries continue to be explored.

MYP SPANISH III**Course 062089 A & B****Grade:** 9 – 12**Prerequisite:** MYP Spanish II and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

MYP Spanish is designed for highly-motivated students; it builds upon the four basic skills acquired in Spanish I and MYP Spanish II. Students are expected to understand and respond to standard speech on familiar topics. This course will enlarge and refine the students' vocabulary; students will improve their ability to understand and respond to the spoken and written language. The students continue exploring different Spanish-speaking cultures and work intensively on oral expression to improve their fluency. A novelette and a standard grammar text are used. Spanish and Latin American art, literature and music, the indigenous cultures of Mexico and Mesoamerica, and the themes found in Don Quixote are among the topics explored.

SPANISH 4**Course 062077 A & B****Grade:** 9 – 12**Prerequisite:** MYP Spanish III and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

In this class students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this class. **This course is designed for highly-motivated students; it builds upon reading, writing, listening, speaking and cultural competency skills. Students should expect language immersion inside the classroom and should expect to attempt to understand and respond to standard speech on familiar topics. This course will enlarge and refine the students' vocabulary; students will improve their ability to understand and respond to the spoken and written language. The students continue exploring different Spanish-speaking cultures and work intensively on oral expression to improve their fluency. Novelettes, grammar practice, authentic resources, videos and at least one standard text are used. Units are thematic. Assessments may include projects. Technology use is common and expected at times.**

MYP CHINESE I (MANDARIN)**Course 062138 A & B****Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language) **H** ►

Students learn to communicate in Chinese (Mandarin) using various methods. Simple conversational language and grammar related to personal interests and Chinese (Mandarin) culture are used to draw connections and make comparisons.

MYP CHINESE II (MANDARIN)**Course 062143 A & B****Grades:** 9 – 12**Prerequisite:** MYP Chinese I**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

Level 2 builds on skills and knowledge of level 1 with increasing emphasis on pronunciation, intonation, and conventions, using more specialized vocabulary. Students will engage in more complex conversations. Narratives will be used to further knowledge of structural patterns and word elements.

MYP CHINESE III (MANDARIN)**Course 062144 A & B****Grades:** 9 – 12**Prerequisite:** MYP Chinese II**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

MYP Chinese III builds on the skills acquired in MYP Chinese II. Conversation and grammar related to personal interests, daily life, Chinese culture, history, and civilization continue to build connections and make comparisons. MYP Chinese III encompasses a broad range of reading, writing, speaking, and listening to reinforce accuracy and improve fluency using a variety of interactive methods.

CHINESE 4 (MANDARIN)**Course 062146 A & B****Grades:** 9 – 12**Prerequisite:** MYP Chinese III**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

In this class students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this class.

INDIVIDUALS AND SOCIETIES

Within the aims and objectives of this subject group, there are concepts that students must address and skills that must be developed over the five years of the Programme. This includes: 1. Concepts of time, place and space, change, systems, and global awareness 2. Technical, analytical, problem-solving, and investigative skills. The primary aim of the humanities course is to develop the understanding and application of concepts and skills rather than prescribed and assessed content.

MYP WORLD HISTORY

Course 1559003 A & B

Grade: 10

Prerequisite: None

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (social studies) **H** ►

The course addresses the fundamental concepts of ‘time,’ ‘cause and consequence,’ ‘continuity and change,’ and ‘similarity and difference,’ developed and facilitated through a thematic and chronological approach. History is an account of the past, and a study of how and why past events occurred. MYP students will learn to interpret these events, analyze the consequences, synthesize the effects, and investigate historical evidence.

AP EUROPEAN HISTORY*

Course 155000 A & B

Grades: 10 – 12

Prerequisite: None

Length of course: 1 year/2 credits

Materials fee: AP exam cost of \$105 (financial assistance available if qualified)

Weighted grade: Yes

Description and credit type: (social studies or core elective) **H** ►

AP European History meets the objectives of a college level course in European history. European history from 1400 to 1989 is covered. Students should expect considerable amounts of outside reading combined with the development of interpretive skills and analytic oral discussion. Students will develop and understand the themes in European history and will be able to analyze historical evidence (both primary documents and secondary works). Through analytical writing, students will demonstrate course understanding. All students are expected to take the AP exam for the purpose of earning college credit.

SCIENCES

The study of science aims to provide students with both a body of knowledge and an understanding of the scientific approach to problem solving. The ability to formulate hypotheses, design and carry out experiments to test them, and evaluate results constitutes the framework within which specific content is presented. Among other skills, students are expected to:

- use basic laboratory equipment safely and efficiently
- make sensible estimates and take accurate measurements
- make scientifically supported arguments

Science courses promote an awareness of the increasingly international context of scientific activity—its impact and limitations—as well as the constant evolution of scientific knowledge and understanding. Students are encouraged to consider science as a constantly evolving cooperative venture between individuals and among members of the international community, influenced by social, economic, technological, political, ethical, and cultural surroundings.

MYP CHEMISTRY

Course 133135 A & B

Grade: 10

Prerequisite: None

Length of course: 1 year/2 credits

Weighted Grade: No

Description and credit type: (science) **H** ►

This course will be an overview of chemistry with a concentration on formulas, equations, types of reactions, simple stoichiometry, atomic theory, and periodic table. This course will use the MYP philosophy and incorporate laboratory investigations to prepare students for success in the DYP science sequence.

MATHEMATICS

Mathematics in the Middle Years Programme aims to provide students with an appreciation of the usefulness, power, and beauty of the subject. One aspect of this is the awareness that mathematics is a universal language with diverse applications. The Middle Years Programme promotes an understanding of how cultural, societal, and historical influences from a variety of cultures have shaped mathematical thought.

MYP ALGEBRA II

Course 111210 A & B

Grades: 9 – 11

Prerequisite: Geometry

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math) **H** ►

Topics in previous algebra courses are built upon, and the additional topics of polynomials, rational, exponential, and logarithm functions, as well as matrices, complex numbers, sequences and series, probability and statistics and trigonometry are presented. Graphing calculators will be used to promote understanding of advanced concepts and develop graphical and numeric solutions. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized. This course is designed to strengthen abstract reasoning and critical thinking skills.

MYP GEOMETRY

Course 116025 A & B

Grades: 9 – 10

Prerequisite: Algebra 1

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math) **H** ►

Topics in two-dimensional and three-dimensional figures including lines, planes, angles, polygons, coordinate geometry, circles, and polyhedrons will be presented. Applications integrate algebraic concepts and use inductive and deductive reasoning to develop geometric proofs. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized.

MYP ALGEBRA I/MYP GEOMETRY COMBO COURSE

Course 111102 A & B

Grades: 9

Prerequisites: Pre-Algebra, Linear Algebra, or equivalent

Length of course: 1 year/4 credits

Weighted grade: No

Description and credit type: (math) **H** ►

MYP ALGEBRA I (Fall): Topics consisting of analyzing and solving linear equations, pairs of simultaneous linear equations and functions will be further developed. Students will construct, compare, solve, and analyze linear, quadratic, and exponential functions and inequalities as well as perform arithmetic operations on polynomials. Students will also summarize, represent, and interpret data, including Personal Financial Literacy topics. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice.

MYP GEOMETRY (Spring): Topics in two-dimensional and three-dimensional figures including lines, planes, angles, polygons, coordinate geometry, circles, and polyhedrons will be presented. Applications integrate algebraic concepts and use inductive and deductive reasoning to develop Geometric proofs. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized. **A TI 83 or TI 84 calculator is required for this course.**

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME (DP)



RHS Juniors and Seniors who are interested in continuing the International Baccalaureate program after their sophomore year, can enrolled either as an **IB “Full” Diploma Candidate** or an **IB “Course” Candidate**. The IB Diploma Programme curriculum provides a balance of breadth and depth, encourages international-mindedness, and requires involvement beyond the classroom. A recent study found that 82.2% of DP graduates enroll in post-secondary institutions immediately following high school graduation, in comparison with the 66% of all high school graduates. In addition, DP students were more likely to apply and gain acceptance to more selective colleges and universities than non-DP students. Students exposed to DP coursework-both full diploma and course students- were more likely to have stronger plans in place to attend college, had higher self-efficacy, and were more prepared in terms of personal responsibility than their non-DP classmates. Depending on your university of choice, you may receive substantial college credit and/or advanced standing from your participation in the IB Diploma program.

By completing courses within the Diploma Programme (DP) your student will prepare for college by

- Being exposed to college level content
- Experiencing a college level workload
- Participating in simulations, labs, and discussions at a higher level
- Reading and writing extensively
- Potentially qualifying for college credits/advance standing

For additional information on the details of the IB programme, go to www.ibo.org and the [Rampart High School IB DP Website](#). All Diploma Programme course availability is dependent on student enrollment. Students will be provided with alternative options if one or more of their course choices are not offered.

Students who want to work towards earning the International Baccalaureate Diploma in addition to their RHS Diploma, will enroll as a **“Full” Diploma Candidate**. The student will take courses in six DP subject areas. Students can earn college credit or advanced standing based on the individual scores for each of their courses. The International Baccalaureate Diploma is awarded to students who have successfully completed their examinations and internal assessments, an Extended Essay (EE), and Creativity, Activity, and Service (CAS) and Theory of Knowledge (ToK) class. Full Diploma Candidates ARE REQUIRED to complete all state and district graduation requirements. **This level of participation is the most valuable to colleges!**

Students can also opt to take individual IB DP courses, similar to taking an AP class. This is called being a **IB “Course” Candidate**. This student cannot earn an IB Diploma but instead will earn individual scores for each DP class (from their DP assessment results) that will be evaluated by the college for credit. Other than the specific DP classes the rest of the student's classes, would be non-DP classes such as traditional classes, AP classes, or electives. Course Candidates are not required to complete the Extended Essay, CAS, or the Theory of Knowledge class. Course Candidates ARE REQUIRED to complete all state and district graduation requirements.

IB “Full” Diploma Program (DP) Candidate

The “Full” Diploma Programme (DP) curriculum is made up of six subject groups and the DP core, comprising of Theory of Knowledge (TOK) class, Creativity, Activity, Service (CAS) and the Extended Essay (EE). The DP core broadens students’ educational experience and challenge them to apply their knowledge and skills. **This level of participation is the most valuable to colleges!**

The six DP subject groups are:

- [Studies in language and literature](#)
- [Language acquisition](#)
- [Individuals and societies](#)
- [Sciences](#)
- [Mathematics](#)
- [The arts](#)

The DP Core is comprised of:

- [Theory of knowledge](#)
- [The extended essay](#)
- [Creativity, activity, service](#)

Students choose courses from the following subject groups: studies in language and literature; language acquisition; individuals and societies; sciences; mathematics; and the arts. Students may opt to study an additional sciences, individuals and societies, or languages course, instead of a course in the arts. There are different courses within each subject group, please refer to chart on the next page. Other than the specific DP classes the rest of the student's classes would be non-DP classes such as regular classes, AP classes, or electives. All IB DP courses are weighted, and course descriptions are listed under the appropriate subject.

Students will take some subjects at higher level (HL) and some at standard level (SL). HL and SL courses differ in scope but are measured according to the same grade descriptors, with students expected to demonstrate a greater body of knowledge, understanding and skills at higher level. Each student takes at least three (but not more than four) subjects at higher level, and the remaining at standard level. Some Standard-level subjects are one-year courses, while others are two-years. All Higher-level subjects extend over both the Junior and Senior year.

Many students earning the IB Diploma and/or score well on individual course exams are awarded advanced standing and/or college credit at colleges and universities in the United States and around the world. In addition, students attending a Colorado public university are awarded a **minimum** of 24 credit hours for an IB diploma. For more information on college credit in Colorado and the Diploma Program [click here](#). For university admissions information worldwide, please see the [University Policy Index](#).

As in all IB programmes, assessment results in the DP are determined by performance against set standards. Assessment in the DP Programme consists of three components:

- Formative Assessments: RHS quizzes, tests, and projects that are completed as part of the class
- IB DP Internal Assessment (IA): This end of course assessments vary by course and course level. Internal assessments are graded by RHS teachers. A sample of assessments is then selected to send to an IB Moderator who scores the sample to ensure that the RHS teacher's grading is accurate.
- IB DP External Assessments (EA): These end of course assessments vary by course and course level. External assessments are completed at RHS and then are sent to an IB Examiner who grades the assessment

All “Full” DP students are expected to take the IB DP assessments. Taking the DP assessments is a strong predictor of success in post-secondary education. Financial support is available for those who qualify.

IB Course Candidate

Students can opt to take individual IB DP courses, similar to taking an AP class. As a IB "Course" Candidate, a student cannot earn an IB Diploma but instead will earn individual grade for each DP class. Depending on your DP assessment results, you may receive substantial college credit and/or advanced standing. Other than the specific DP classes the rest of the student's classes, would be non-DP classes such as traditional classes, AP classes, or electives. All IB DP courses are weighted, and course descriptions are listed under the appropriate subject. Course Candidates DO NOT complete the Extended Essay, CAS, or the Theory of Knowledge class.

Students can choose any number of the following IB Diploma Program (DP) Courses:

NOTE: Before selecting DP course...see course description in guide for grade level restrictions (Jr, Sr), course length (1 yr, 2-yr) and any pre-requisites.

Juniors	Seniors
IB Language and Literature I	IB Language and Literature II
IB DP French I	IB DP French II
IB DP Spanish I	IB DP Spanish II
IB History of the Americas	IB 20 th Century World History
IB Business Management	IB Business Management
IB Psychology	IB Psychology
DP Environmental Systems and Societies	DP Environmental Systems and Societies
IB Biology I	IB Biology II
IB Chemistry I	IB Chemistry II
IB Physics I	IB Physics II
IB DP Math Applications and Interpretations	IB DP Math Applications and Interpretations
IB Theatre I	IB Theatre II
IB DP Film I	IB DP Film II
IB Visual Arts I (Pending further discussion)	IB Visual Arts II (Pending further discussion)

Students will opt to take subjects at higher level (HL) or standard level (SL), level is based on course offering. HL and SL courses differ in scope but are measured according to the same grade descriptors, with students expected to demonstrate a greater body of knowledge, understanding and skills at higher level.

Students who score well on individual course assessments are awarded advanced standing and/or college credit at colleges and universities in the United States and around the world. In addition, students attending a Colorado public university are awarded a minimum of 24 credit hours for an IB diploma. For more information on college credit in Colorado and the Diploma Program [click here](#). For University admission information Worldwide, please see the [University Policy Index](#).

As in all IB programmes, assessment results in the DP are determined by performance against set standards. Assessment in the DP Programme consists of three components:

- Formative Assessments: RHS quizzes, tests, and projects that are completed as part of the class
- IB DP Internal Assessment (IA): This end of course assessments vary by course and course level. Internal assessments are graded by RHS teachers. A sample of assessments is then selected to send to an IB Moderator who scores the sample to ensure that the RHS teacher's grading is accurate.
- IB DP External Assessments (EA): These end of course assessments vary by course and course level. External assessments are completed at RHS and then are sent to an IB Examiner who grades the assessment

All IB "Course" students are strongly recommended to take the end of course IB DP assessments. In order to receive college credit, student MUST take the DP assessments. Taking the DP assessments is a strong predictor of success in post-secondary education. Financial support is available for those who qualify.

Group	11th Grade	12th Grade	"Full" Diploma Candidate Courseflow	IB/DP EXAMS TO BE TAKEN			
1	IB English A: Lang and Lit HL I (2 year)	IB English A: Lang and Lit HL II	Miscellaneous				
2	IB DP Language B: French I..... (2 year)	IB DP Language B: French II	No DP courses can be completed via Independent Study	Language A	English	HL	
	IB DP Language B: Spanish I (2 year)	IB DP Language B: Spanish II		Language B		HL	SL
	IB DP Language B: Chinese I(2 year)	IB DP Language B: Chinese II	* Based on teacher recommendation	Individuals & Societies		HL	SL
3	IB History of Americas (2 year, continues in 20th CWH)	IB 20th Century World History SL or HL HL pre-req is HOA	Juniors can test in the following courses: DP Psychology SL DP Business Management SL DP Environmental System & Societies SL DP Math Applications and Interpretation SL Max of two tests can be taken Jr year	Experimental Sciences		HL	SL
	IB Psychology SL (1 year; if taken Jr yr Group 3 req fulfilled)	IB Psychology SL (can be taken Sr yr if not Jr yr)		Maths		HL	SL
	IB Business Management SL (1 year; if taken Jr yr Group 3 req fulfilled)	IB Business Management SL (can be taken Sr Yr if not Jr yr)		The Arts or Elective		HL	SL
	U.S. History or AP U.S. History						
4	IB Biology I HL (2 year)	IB Biology II SL or HL					
	IB Chemistry I HL (2 year)	IB Chemistry II SL or HL					
	DP Environmental Sys & Soc SL (1 year; if taken Jr yr Group 4 req fulfilled)	DP Environmental Sys & Soc SL..(can be taken Sr Yr if not Jr yr)					
	IB Physics HL I (2 year)	IB Physics II SL or HL					
5	IB DP Math Applications & Interpretation HL I (2 year)	IB DP Math Applications & Interpretation HL II	IB DIPLOMA REQUIREMENTS · 6 IB Exams in 6 different subject areas; Standard Level (SL) exams or Higher Level (HL) exams; three SL and three HL <u>or</u> two SL and four HL exams must be taken; two SL exams may be taken in the junior year (see above). · Creativity / Action / Service (CAS) · Extended Essay (EE) · Theory of Knowledge (TOK)				
	IB DP Math Applications & Interpretation SL..... (1 year; pre-req is MYP Algebra II; if taken Jr yr Group 5 req fulfilled)	IB DP Math Applications & Interpretation SL (pre-req MYP Alg II)					
	MYP Algebra II (will take DP Math Apps and Interpretation SL Sr yr)						
6	IB Visual Arts HL I	IB Visual Arts HL II	<i>Please note: The information on this form is subject to change as IB course curriculums are revised.</i>				
	IB Theatre Arts I	IB Theatre Arts II					
	IB DP Film I	IB DP Film II					
	or substitute an additional course from Group 2, 3, or 4	or substitute an additional course from Group 2, 3, or 4					
TOK	Taken 2nd Semester	Taken 1st Semester					

RHS IB “Full” DP Candidate Schedule Planning Document

Group	11th Grade / 1st Sem	11 Grade / 2nd Sem	12th Grade / 1st Sem	12 Grade / 2nd Sem
1	English A: Lang & Lit HL	English A: Lang & Lit HL	English A: Lang & Lit HL	English A: Lang & Lit HL
2				
3				
4				
5				
6				
OPEN		ToK	ToK	
OPEN				

Higher Level Test

English A: Lang & Lit

Standard Level Test

(optional)

Questions on DP scheduling or courses, please contact student’s grade level counselor.

Mrs. Holly Hilts (College & Career Counselor, DP general questions) / Counseling Office or holly.hilts@asd20.org

Ms. Avalon Manly (IB Coordinator) / Room 401 or avalon.manly@asd20.org

Group 1 Language and Literature

RHS IB DP students study **language and literature** for two years to satisfy the Group 1 requirement. In studying the Group 1 course, students are able to develop:

- A personal appreciation of language and literature
- Critical-thinking skills in their interaction with arrange of texts from different periods, styles, text-types, and literacy forms
- An understanding of the formal, stylistic, and aesthetic qualities of texts
- Strong powers of expression, both written and oral
- An appreciation of cultural differences in perspective
- An understanding of how language challenges and sustains ways of thinking

IB ENGLISH A: LANG AND LIT HL I*

Course 050040 A & B

Grade: 11

Prerequisite: MYP English II

Length of Course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (English) **H** ►

The first of the two-year DP Language & Literature course has been designed to meet the requirements of both the IB diploma and the District 20 high school diploma. Key aims of the course are to develop textual analysis skills and to analyze the meaning generated by language and texts through an understanding of culturally determined reading practices.

IB ENGLISH A: LANG AND LIT HL II *

Course 051911 A & B

Grade: 12

Prerequisite: IB English A: Lang and Lit HL I

Length of Course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (English) **H** ►

The second year of the two-year Language A (IB English IV) course has been designed to meet the requirements of both the IB diploma and District 20 high school diploma continuum. Close critical analysis of international literary works, prescribed by IBO, in a range of literary genres will serve as a foundation, along with independent research, for both composition and oral articulation. An IB-designated curriculum will stress full text masterpieces and groups of works by one author. One internally assessed and externally moderated oral product and one critical analysis paper centered in world literature will be evaluated by IBO. Additionally, two externally assessed May examinations—one in commentary format, the second a formal comparative literature essay—will be required as a fulfillment of the IB Language A English 1 curriculum.

Group 2 Language Acquisition

RHS IB DP students study **French, Spanish, or Mandarin Chinese** for two years to satisfy the Group 2 requirement. The main emphasis of the modern language courses is on the acquisition and use of language in a range of contexts and for different purposes, while at the same time promoting an understanding of another culture through the study of its language.

IB DP FRENCH I*

Course 062017 A & B

Grades: 11

Prerequisite: MYP French III, and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **The first year of the diploma-level program is designed to expand accuracy in grammatical structures, to increase fluency in oral and written work, and to develop reading comprehension skills in order to study and to analyze non-technical and literary pieces (i.e., essays, poetry, short stories) as well as print, audio, and audiovisual texts on a variety of life topics. The textbook is used to cover an overview of French history and literature. Students continue to gain insight into the way of life of Francophones and should expect to speak only in that target language. At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB DP FRENCH II*

Course 062019 A & B

Grades: 12

Prerequisite: IB DP French I and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **Students in IB DP French II are at the high end of the language spectrum. The course is designed for students with an already high level of competence and interest in the French language and it continues to emphasize the four primary language skills: listening, speaking, reading, and writing. The main focus of the course is on the reinforcement and refinement of language skills and there will be increased attention on French literature and handling literary texts, as well as print, audio, and audiovisual texts on a variety of current events and life topics. Students will be given the opportunity to explore the culture of the language, and to make connections between other languages and cultures with which they are familiar. Students will be able to use French for the purposes and in situations involving sophisticated discussion, argument, and debate. At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB DP SPANISH I*

Course 062090 A & B

Grade: 11

Prerequisite: MYP Spanish III, and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **The first year of the IB Diploma Programme, Language B, Standard Level, is designed to expand accuracy in grammatical structures, to increase fluency in oral and written work, and to develop reading comprehension skills in order to study and to analyze literary and non-technical pieces (e.g., essays, poetry, short stories) on a variety of life topics. Spanish and Latin American art, literature, music, history, and current issues are among the topics explored. Students continue to gain insight into the way of life in the Spanish-speaking world and should expect to speak only in the target language. At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB DP SPANISH II*

Course 062092 A & B

Grade: 12

Prerequisite: IB DP Spanish I and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **The second year of the IB Diploma Programme, has three goals: 1) increasing the student's skills in grammar, comprehension, and oral and written proficiency; 2) further expanding the student's knowledge and understanding of Spanish and Latin American literature, culture, and history; and 3) becoming familiar with, practicing for, and completing the Standard Level exam. Students will research and prepare to discuss with competency various topics. A variety of readings as well as an advanced level text and workbook will be used. Students should look forward to feeling comfortable using the Spanish language almost exclusively in this class and when working outside of the class as well. Seniors will take an oral exam in early spring and the written exam in May.**

IB DP CHINESE I (MANDARIN)*

Course 062150 A & B

Grade: 11

Prerequisite: MYP Chinese (Mandarin) III and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **The first year of the diploma-level program is designed to expand accuracy in grammatical structures, to increase fluency in oral and written work, and to develop reading comprehension skills in order to study and to analyze non-technical and literary pieces (i.e., essays, poetry, short stories) as well as print, audio, and audiovisual texts on a variety of life topics. Students continue to gain insight into the way of life of Chinese culture and should expect to speak only in that target language. Students will take an oral exam in early spring and the written exam in May.**

IB DP CHINESE II (MANDARIN)*

Course 062155 A & B

Grade: 12

Prerequisite: IB DP Chinese I and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme.

Group 3 Individuals and Societies

For the Group 3 requirement, most students choose History, Psychology or Business Management from Group 3. RHS offers:

- History: History of the Americas (fulfills RHS graduation requirement for U.S. History) in the junior year; 20th Century World History in the senior year

IB HISTORY OF THE AMERICAS HL*

Course 155101 A & B

Grade: 11

Prerequisite: None

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (social studies) **H** ▶

This course covers major developments in the region from around 1760 to 2000: independence movements; the challenges of nation-building; the emergence of the Americas in global affairs; the Great Depression; the Second World War and the Cold War, and their impact on the region, as well as the transition into the 21st century. Within each section political, economic, and social issues are considered and, when relevant, cultural aspects are included. The countries of the Americas form a region of great diversity but close historical links. Special emphasis will be placed on research and writing skills, and particularly the Internal Assessment. **This course fulfills the US History requirement for D20 graduation.**

IB PSYCHOLOGY SL*

Course 158011 A & B

Grades: 11 – 12

Prerequisite: None

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (social studies) **H** ▶

IB Psychology is designed to fulfill the requirements for the Standard Level (SL)/Sixth Subject of the IB Program in Psychology. Students will complete the compulsory study of three psychological perspectives: biological, cognitive, and learning. In addition, students will study one of the following option areas: dysfunctional, social, or psychodynamic psychology. Subtopics include nervous system functions, sensation and perception, learning and memory, language, stress, and intelligence. For their internal assessment, students will undertake a partial replication of and report on one simple experiment of their choice.

IB 20TH CENTURY WORLD HISTORY*

Course 155915 A & B

Grade: 12

Prerequisite: MYP World History and IB History of the Americas; SL students will have taken US History or AP US History

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (social studies) **H** ▶

This course is offered for IB Diploma candidates taking the standard level and higher level exams for group three. Candidates will take examinations on the following: (1) Prescribed Subject on “Peacemaking, peacekeeping- international relations 1918-36” or “Communism in Crisis 1976-89” (2) 20th Century History Topics on “Causes, practices and effects of war,” “Origins and development of authoritarian and single-party states,” and “Democratic states – challenges and responses.” HL candidates will also take the regional. All candidates will be required to complete an Internal Assessment (a.k.a. Historical Investigation) of 1500-2000 words.

IB BUSINESS MANAGEMENT SL*

Course 034620 A & B

Grades: 11 – 12

Prerequisite: None

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (unrestricted elective) **H**

IB Business and management is a rigorous and dynamic discipline that examines business decision-making processes and how these decisions impact on and are affected by internal and external environments. It is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills decision-making and the day-to-day business functions of marketing, production, human resource management and finance. The business and management course aims to help students understand the implications of business activity in a global market and it is designed to give students an international perspective of business and to promote their appreciation of cultural diversity. The core curriculum consists of five topics: 1) Business organization and environment; 2) Human resources; 3) Accounts and finance; 4) Marketing; and 5) Operations management. IB assessments (exams and written commentary) cover all five topics. IB Business and Management is a Sixth Subject elective. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

Group 4 Sciences

It is a requirement of a full DP Candidate to study at least one subject from group 4:

- Biology SL or HL
- Chemistry SL or HL
- Environmental systems and societies SL
- Physics SL or HL

IB BIOLOGY HL I*

Course 132901 A & B

Grades: 11

Prerequisite: MYP Biology

Length of course: 1 year/2 credits

Weighted grade: Yes

Materials fee: \$20

Description and credit type: (science) **H** ►

This is the first year of a two year Biology HL curriculum. The course will enable students to apply and use a body of knowledge, methods and techniques that characterize science and technology. The course will cover the following topics: ecology, evolution theory, biology investigation methods, cells, cell metabolism, biochemistry, genetics, biotechnology, human physiology, neurobiology, and animal behavior. This class will also help develop experimental and investigative laboratory techniques in biology that will allow them to successfully complete the Interdisciplinary Science Group 4 Research Project (interaction between physics, chemistry and biology students to solve a local problem), and to present topics for the extended essay.

IB BIOLOGY HL II*

Course 132902 A & B

Grades: 12

Prerequisite: IB Biology HL I

Length of course: 1 year/2 credits

Weighted grade: Yes

Materials fee: \$20

Description and credit type: (science) **H** ►

This is the second year of a two-year curriculum in which students are prepared to take exams at the higher level (HL). The course will enable students to apply and use a body of knowledge, methods and techniques that characterize science and technology. The course will build on the topics covered in IB Biology HL I, including, but not to: ecology, botany, advanced human physiology, and advanced genetics. This class will continue to develop experimental and investigative laboratory techniques as well as provide opportunities for scientific study and creativity within a global context. Students who complete this course will be prepared to take the Biology HL exam in May. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB CHEMISTRY HL I*

Course 133146 A & B

Grades: 11

Prerequisite: MYP Chemistry

Length of course: 1 year/2 credits

Weighted grade: Yes

Materials fee: \$20

Description and credit type: (science) **H** ►

This is the first year of a two-year chemistry Higher Level curriculum. Chemistry is referred to as “the central science”, as chemical principles underpin both the physical environment in which we live and all biological systems. The Diploma Programme chemistry course includes the essential principles of the subject (such as quantitative chemistry, bonding, acids/bases and organic chemistry) but also includes options (such as human biochemistry, environmental chemistry, medicines and drugs) in order to meet the needs of students. In addition to the externally assessed IB exams, students complete two internally assessed requirements: 1) the practical scheme of work (PSOW)—investigations (such as laboratory work or practical’s, and projects); and 2) the Group IV Project—a collaborative, interdisciplinary project in which students from the different group 4 subjects analyze a common topic or problem.

IB CHEMISTRY HL II*

Course 133113 A & B

Grades: 12**Prerequisite:** IB Chemistry HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ►

This is the second year of the two-year IB Chemistry curriculum in which students will be prepared to take exams at the higher level (HL). The Diploma Programme chemistry course includes the essential principles of the subject (such as quantitative chemistry, bonding, acids/bases and organic chemistry) but also includes options (such as human biochemistry, environmental chemistry, medicines and drugs) in order to meet the needs of students. In addition to the externally assessed IB exams, students complete two internally assessed requirements: 1) the practical scheme of work (PSOW)—investigations (such as laboratory work or practicals, and projects); and 2) the Group IV Project—a collaborative, interdisciplinary project in which students from the different group 4 subjects analyze a common topic or problem. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

DP ENVIRONMENTAL SYSTEMS AND SOCIETIES SL

Course 132415 A & B

Grades: 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (science) **H** ►

Diploma Programme Environmental Systems and Societies is designed to combine the techniques and knowledge associated with the DP programme experimental sciences with the social sciences. Students will gain perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. Students will develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. Students will be evaluating scientific, ethical, and socio-political aspects of issues. This course has a lab component. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB PHYSICS HL I

Course 133220 A & B

Grades: 11**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ►

This is the first year of a two year IB Physics HL course. Six broad areas make up the core for Higher Level Physics: all facets of classical mechanics, thermodynamics, wave theory, nuclear physics, electromagnetic theory (including elementary circuit analysis), energy and power, and the science behind the greenhouse effect and our climate are covered. Other topics discussed and investigated include the history of physics, proper scientific measurement, experimental uncertainty, and geometric optics. All areas will include relevant laboratory investigations for each topic, and all students will be expected to keep a cumulative lab notebook. Furthermore, all IB Physics students will be expected to be involved with the Group 4 Interdisciplinary Science Project. Some labs may be held during non-school hours.

IB PHYSICS HL II

Course 133225 A & B

Grades: 12**Prerequisite:** IB Physics HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ►

This is the second year of the Higher Level Physics course. It covers the same topics as in the first year of physics and goes much deeper into all of the core areas. In the second year of the course students will expand upon their introductory treatment of the core content including mechanics, thermal physics, waves, nuclear physics, climate studies, electromagnetic theory, and circuitry. In addition, students will study the required Options of the course. The options may include site and wave phenomena, quantum and nuclear physics, digital technology, relativity and particle physics, astrophysics, radio communication or electromagnetic waves. Furthermore, all IB Physics students will be expected to be involved with the Group 4 Interdisciplinary Science Project. Some labs may be held during non-school hours. Approximately 240 instructional hours are planned for IB Physics HL I & II. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

Group 5 Mathematics

RHS offers two math options:

- MYP Algebra II
- Mathematics Applications and Interpretations HL I and SL

MYP ALGEBRA II

Course 111210 A & B

Grades: 9 – 11

Prerequisite: MYP Geometry or equivalent and approval of current math instructor

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math or core elective) **H** ►

Topics in previous algebra courses are built upon, and the additional topics of polynomials, rational, exponential, and logarithms functions, as well as, matrices, complex numbers, sequences and series, probability and statistics, and trigonometry are presented. Graphing calculators will be used to promote understanding of advanced concepts and develop graphical and numeric solutions. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized. This course is designed to strengthen abstract reasoning and critical thinking skills. **A TI 83 or TI 84 calculator is required for this course.**

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION SL

Course 110037 A & B

Grades: 11 – 12

Prerequisite: MYP Algebra II

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (math) **H** ►

This course is designed to prepare students for the IB DP Mathematics Applications and Interpretation SL exam. Concepts from MYP Geometry and MYP Algebra II are built upon. This course is designed for students who are interested in harnessing the power of technology when exploring mathematical models and who enjoy the more practical side of mathematics. The course consists of five compulsory topics: Algebra and Numerical Analysis, Functions, Geometry and Trigonometry, Statistics and Probability, and Calculus. The internally assessed component for Mathematics Applications and Interpretation SL (the portfolio) is a substantial piece of research based on different areas of the syllabus and representing three types of tasks (mathematical investigation, problem-solving, and modeling). This course would be appropriate for students interested in the fields of social sciences, natural sciences, statistics, business, economics, psychology, and design. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION HL I

Course 110070 A & B

Grades: 10 – 11

Prerequisite: MYP Algebra II

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (math) **H** ►

This course is year one of a two-year DP math course track, and concepts from MYP Geometry and MYP Algebra II are built upon. This course is designed to prepare students for the IB DP Mathematics Applications and Interpretation HL exam. The course consists of five compulsory topics: Algebra and Numerical Analysis, Functions, Geometry and Trigonometry, Statistics and Probability, and Calculus. This course would be appropriate for students interested in the fields of social sciences, natural sciences, statistics, business, economics, psychology, and design.

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION HL II**Course 110072 A & B****Grades:** 11 – 12**Prerequisite:** IB DP Mathematics Applications and Interpretation HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (math) **H** ►

This course is designed to prepare students for the IB DP Mathematics Applications and Interpretation HL or SL exam. The course consists of five compulsory topics: Algebra and Numerical Analysis, Functions, Geometry, and Trigonometry, Statistics and Probability. This course also encompasses most of the AP Calculus AB curriculum. The internally assessed component for Mathematics Applications and Interpretation (the portfolio) is a substantial piece of research based on different areas of the syllabus and representing three types of tasks (mathematical investigation, problem-solving, and modeling). In addition to the DP exam, content of this course will also allow for students to take AP Calculus AP exam if they choose to. This course would be appropriate for students interested in the fields of social sciences, natural sciences, statistics, business, economics, psychology, and design. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

Group 6 The Arts

Rampart High School offers three Group 6 options for students at higher level or standard level:

- Film
- Theatre
- Visual arts

IB VISUAL ARTS HL I***Course 029003 A****Grades:** 11**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$100**Description and credit type:** (fine art or unrestricted elective) **H**

This is the first year of a two year intensive sequence of classes for students choosing to study art at the higher level. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Supporting the International Baccalaureate mission statement and learner profile, the course encourages students to actively explore the visual arts within and across a variety of local, regional, national, international, and intercultural contexts. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture.

Course 029003 B

This is the first year of a two year sequence of classes for students choosing to study art at the higher level. This course requires the students to complete a body of creative work. Artistic understanding and expression may be taught through various techniques from painting, drawing, experimental mixed media, photography, sculpture or ceramics. An in-depth development of personal expression and application of knowledge will be attained. The elements and principles are practiced through a wide variety of two and three dimensional media, including drawing, painting, printmaking, fibers techniques, sculpture, mixed media, and construction. Investigative Work Books are an integral part of the course as they are used to develop research into artists, materials, media, and techniques. Student will be prepared to continue to IB Visual Arts HL II. **This class qualifies for course candidacy. Successful students receive a certificate upon completion of class and passing examination.**

IB VISUAL ARTS HL II*

Course 029004 A & B

Grades: 12**Prerequisite:** IB Visual Arts HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$100**Description and credit type:** (fine art or unrestricted elective) **H**

This is the second year of a two year intensive sequence of classes for students choosing to study art at the higher level. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Supporting the International Baccalaureate mission statement and learner profile, the course encourages students to actively explore the visual arts within and across a variety of local, regional, national, international, and intercultural contexts. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB THEATRE ARTS I HL*

Course 056610 A & B

Grade: 11**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (fine art or unrestricted elective) **H**

This course is designed to meet the higher-level requirements of the IB diploma and District 20 High School diploma. With respect to the IB Diploma, this course fulfills the sixth subject area of study and higher level course required by the IB Programme. The IB designed curriculum in this course involves a discipline based, integrated approach to theatre. Areas of studies include theatre culture, practice, theory, and performance. Projects include an oral play analysis, play production, and a dramaturgical research project. The course is recommended for the serious theatre arts student. For the IB candidate, completion of this course is considered preparation to sit for the higher level exam and serves as a sixth subject.

IB THEATRE ARTS II HL*

Course 056611 A & B

Grade: 12**Prerequisite:** Theatre Arts HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (fine art or unrestricted elective) **H**

This course is the second year, higher level continuance of IB Theatre Arts I. It is designed to meet the requirements of both the IB Diploma and District 20 high school diploma. With respect to the IB Diploma, this course fulfills the sixth subject area of study required by the IB Programme. With respect to the District 20 diploma, this course can serve as an elective or an arts credit and will be accepted as such by most colleges and universities. The IB designed curriculum in this course involves the continuation of a study of theatre culture, practice, and theory, as well as performance. The Higher Level student is also expected to complete an independent study research project as well as the play analysis and dramaturgical research paper required in the class. For the IB candidate, completion of this course is considered preparation to sit for the higher level exam and serves as a sixth subject. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB DP FILM I*

Course 191098 A & B

Grade: 11 - 12**Prerequisite:** None**Length of Course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (fine arts or unrestricted elective) **H**

Students will gain understanding of film as a complex art form, the ability to formulate stories and ideas in film terms, the practical and technical skills of production, and critical evaluation of film productions. Students will also further their knowledge of film-making traditions in other countries.

IB DP FILM II*

Course 191099 A & B

Grade: 12**Prerequisite:** IB DP Film I**Length of Course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (fine arts or unrestricted elective) **H**

Upon completion of IB DP Film I, students will further gain an understanding of film as a complex art form, the ability to formulate stories and ideas in film terms, and the practical and technical skills of production, and critical evaluation of film productions. Students will also further their knowledge of film-making traditions in other countries. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

Theory of Knowledge (TOK)

Full Diploma students take TOK 2nd semester of the junior year and first semester of the senior year.

The interdisciplinary TOK course is designed to develop a coherent approach to learning that transcends and unifies the academic areas and encourages appreciation of other cultural perspectives. Theory of knowledge encourages critical thinking about knowledge itself and aims to help young people make sense of that they encounter.

IB THEORY OF KNOWLEDGE*

Course 158015 A or B

Grade: 11 – 12**Prerequisite:** Full Diploma or a DP Course candidate**Length of course:** This course is taught 2nd semester of the junior year and 1st semester of the senior year**Weighted grade:** Yes**Description and credit type:** (social studies) **H** ►

Theory of Knowledge is a course that explores the origins, validity, and value of the various forms of knowledge, or ways of knowing. The content focuses on the various subject areas of students' IB education as well as personal beliefs acquired in or out of school. The process of the course is a critical reflection on what the students claim to know and what is professed as knowledge by others. The first semester examines knowledge, truth, perception, emotion, language, reason, and mathematics. The second semester examines the natural sciences, human sciences, history, ethics, and aesthetics.

**RAMPART HIGH SCHOOL
COURSE OFFERINGS
2024 – 2025**



THE ARTS

Overview of Courses

ART

AP STUDIO ART 2D
IB VISUAL ARTS

CERAMICS
INTRO ART AND DESIGN

SCULPTURE

COMPUTER GRAPHIC DESIGN
DIGITAL PHOTOGRAPHY

PERFORMING ARTS

VISUAL ARTS

Overview of Courses

In all art classes, students can expect to evaluate, analyze, and interpret works of art as related to artists, art history, and culture.

ART 1 Course 020000

Grades: 9 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Materials fee: \$35

Description and credit type: (fine art or unrestricted elective) **H**

Students will receive instruction in the skills of basic drawing and painting. Students will explore basic techniques and subject matter. The media may include pencil, ink, charcoal, color pencil, printmaking, acrylic, watercolor, and tempera.

ART 2 Course 020005

Grades: 10 – 12

Prerequisite: Art 1 with a grade of C or higher, and/or instructor approval

Length of course: 1 semester/1 credit

Materials fee: \$35

Description and credit type: (fine art or unrestricted elective) **H**

Students will receive instruction in the skills of intermediate drawing and painting. Students will expand their knowledge and application of drawing and painting techniques. The media may include pencil, ink, charcoal, color pencil, printmaking, acrylic, watercolors, tempera, pastels, sanguine and sepia, and conte crayon. **Emphasis is placed on creative thinking and visual composition.**

ART 3 Course 020010

Grades: 10 – 12

Prerequisite: Art 1 and 2 with a grade of C or higher, and/or instructor approval

Length of course: 1 semester/1 credit

Materials fee: \$35

Description and credit type: (fine art or unrestricted elective) **H**

Student will receive instruction in the skills of advanced drawing and painting. Students will continue to develop personal style and complex problem solving skills as evidenced in the development of their portfolio. **Class critique plays a key part in student growth and understanding.**

ART 4 Course 020015

Grades: 10 – 12

Prerequisite: Art 1, 2, and 3 with a grade of C or higher, and/or instructor approval

Length of course: 1 semester/1 credit

Materials fee: \$35

Description and credit type: (fine art or unrestricted elective) **H**

Students will work in the media of their choice, developing advanced technical skills and personal style while addressing problems of creative expression. Mixed media and use of new media will be addressed. Students will be expected to create two “show quality” art pieces. **Class critique plays a key part in student growth and understanding.**

AP STUDIO ART 2D Course 020040 A & B

Grades: 10 – 12

Prerequisite: Passing grade in both Art 1 and Art 2

Length of course: 1 year/2 credits

Weighted grade: Yes

Materials fee: \$105

Description and credit type: (fine art or unrestricted elective) **H**

This is a year-long, college-level class which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will work in the summer and the entire school year producing artwork for a portfolio. The AP 2D Design Portfolio involves integrative application of elements and principles through any 2D process or medium including, but not limited to graphic design, photography, digital imaging, illustration, fabric design and digital imaging. 24 to 29 works will be completed for the AP exam portfolio. It is mandatory that the student work the entire school year producing artwork and submit a portfolio to the AP board in May.

AP STUDIO ART 3D***Grades:** 10-12**Prerequisite:** Ceramics 1 and Ceramics 2 or Sculpture and Ceramics 1**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$105**Description and credit type:** (fine art or unrestricted elective) **H**

This is a year-long, college-level class which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will work in the summer and the entire school year producing artwork for a portfolio. The AP 2D Design Portfolio involves integrative application of elements and principles through any 2D process or medium including, but not limited to: graphic design, photography, digital imaging, illustration, fabric design and digital imaging. 24 to 29 works will be completed for the AP exam portfolio. It is mandatory that the student work the entire school year producing artwork and submit a portfolio to the AP board in May.

IB VISUAL ARTS HL I***Course 029003 A****Grades:** 11**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$100**Description and credit type:** (fine art or unrestricted elective) **H**

This is the first year of a two year intensive sequence of classes for students choosing to study art at the higher level. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Supporting the International Baccalaureate mission statement and learner profile, the course encourages students to actively explore the visual arts within and across a variety of local, regional, national, international, and intercultural contexts. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture.

Course 029003 B

This is the first year of a two year sequence of classes for students choosing to study art at the higher level. This course requires the student to complete a body of creative work. Artistic understanding and expression may be taught through various techniques from painting, drawing, experimental mixed media, photography, sculpture or ceramics. An in-depth development of personal expression and application of knowledge will be attained. The elements and principles are practiced through a wide variety of two and three dimensional media, including drawing, painting, printmaking, fibers techniques, sculpture, mixed media, and construction. Investigative Work Books are an integral part of the course as they are used to develop research into artists, materials, media, and techniques. Student will be prepared to continue to IB Visual Arts HL II. **This class qualifies for course candidacy. Successful students receive a certificate upon completion of class and passing examination.**

IB VISUAL ARTS HL II***Course 029004 A & B****Grades:** 12**Prerequisite:** IB Visual Arts HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$100**Description and credit type:** (fine art or unrestricted elective) **H**

This is the second year of a two year intensive sequence of classes for students choosing to study art at the higher level. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. Supporting the International Baccalaureate mission statement and learner profile, the course encourages students to actively explore the visual arts within and across a variety of local, regional, national, international, and intercultural contexts. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

CERAMICS 1**Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (fine art or unrestricted elective) **H**

This course involves an introduction to the materials, techniques, design, and equipment of hand-built ceramic art and an introduction to the potter's wheel. Emphasis will be on development of basic skills, creativity, craftsmanship, aesthetics, and using clay as a medium of personal expression.

CERAMICS 2

Course 023005

Grades: 9 – 12**Prerequisite:** Ceramics 1 with a grade of C or higher, and/or instructor approval**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (fine art or unrestricted elective) **H**

This course will include an in-depth study of materials, techniques, design, and equipment of hand-built ceramics plus intermediate wheel throwing.

CERAMICS 3

Course 023010

Grades: 10 – 12**Prerequisite:** Ceramics 1 and 2 with a grade of C or higher, and/or instructor approval**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (fine art or unrestricted elective) **H**

At advanced levels of ceramic studies, students will work with materials, techniques, and concepts to generate their own personal designs. Students will be required to research and develop their ideas in and out of the ceramic lab. Students will pursue new directions with approval and guidance from the instructor. Emphasis may be on the exploration of clay as a sculptural medium, the business strategies behind the process of production pottery, independent study, and mastery of clay studio processes.

CERAMICS 4

Course 023015

Grades: 10 – 12**Prerequisite:** Ceramics 1, 2 and 3 with a grade of C or higher, and/or instructor approval**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (fine art or unrestricted elective) **H**

At advanced levels of ceramics studies, students will work with materials, techniques, concepts, designs, and research in and out of the ceramic's lab. Students will work with individualized projects utilizing instruction, reference, and experience. Students will pursue new directions with approval and guidance from the instructor. Students may take this course within a Ceramics 1, 2, or 3 class with instructor's approval.

INTRO ART AND DESIGN

Course 022005

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (fine art or unrestricted elective) **H**

This is a beginning level art sampler class designed to help students tap into and explore their creative side. Students will enjoy learning skills in the use of a variety of media which may include: drawing, painting, photography, computer graphic design, ceramics, printmaking, and more. Guest teachers and artists may appear to share their expertise.

SCULPTURE

Course 028000

Grades: 9 – 12**Prerequisites:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (fine art or unrestricted elective)

This course is a studio-based art class introducing students to three-dimensional art. Through individual and group projects, visual presentations, and class discussion, students will explore various forms of sculpture. After learning foundational elements, principles, and historical and contemporary background of three-dimensional art, students will express themselves and the world around them through many forms of sculpture including (but not limited to) paper, wire, clay, recycled materials, handmade books, group projects and even public installations. Projects will focus on both personal and public content through an inventive, creative, and hands-on approach.

COMPUTER GRAPHIC DESIGN 1**Grades:** 9 – 12**Prerequisite:** Basic computer skills**Length of course:** 1 semester/1 credit**Materials fee:** \$10**Description and credit type:** (fine art or unrestricted elective) **H**

Students will learn to use the computer as a tool for creating their own work and for manipulating digitized images. Students will use industry standard software, as well as digital imaging devices, to create a variety of 2D projects.

COMPUTER GRAPHIC DESIGN 2 (this course fulfills the MYP Art or Technology requirement)

Course 026030

Grades: 9 – 12**Prerequisite:** Computer Graphic Design 1 with a grade of C or higher and/or instructor approval**Length of course:** 1 semester/1 credit**Materials fee:** \$10**Description and credit type:** (fine art or unrestricted elective) **H**

Students will continue their study of digital fine art using industry standard software and applying their skills to create more complex original digital compositions.

DIGITAL PHOTOGRAPHY 1

Course 026050

Grades: 9 – 12**Prerequisites:** Students must provide digital camera**Length of course:** 1 semester/1 credit**Materials fee:** \$30**Description and credit type:** (fine art or unrestricted elective) **H**

Students will explore about visual communication and learn how to plan and produce photographic compositions that demonstrate an understanding of such techniques as light, composition, color, and visual impact. **Students must provide their own digital cameras with a minimum of 8 megapixels. Phones, iPods, and tablets are not permitted to be used as a camera for this class.**

DIGITAL PHOTOGRAPHY 2

Course 026055

Grades: 10 – 12**Prerequisites:** Pass Digital Photography 1 with a C or better, and students must provide digital camera**Length of course:** 1 semester/1 credit**Materials fee:** \$30**Description and credit type:** (fine art or unrestricted elective) **H**

Students will expand upon the themes covered in previous photography courses, with specific emphasis toward expanding technical fluency and personal articulation, using industry standard software. **Students must provide their own digital cameras with a minimum of 8 megapixels. Phones, iPods, and tablets are not permitted to be used as a camera for this class.**

PERFORMING ARTS

Overview of Courses

Co-curricular opportunities in the performing arts include: Children’s Theatre, Fall Play, International Thespians, Marching Band, Tenor Bass Choir, musicals, Pep Band, Ramantics (variety show), Stage Crew, and the winter play.

BEGINNING GUITAR

Course 125000

Grades: 9 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (fine art or unrestricted elective) **H**

This course is designed for beginning guitar students. The course will teach the fundamentals of music reading and beginning guitar techniques. Students will improve their understanding of music as they study a variety of musical styles and music from different cultures. Students must purchase the class text and have their own acoustic guitar.

INTERMEDIATE GUITAR

Course 125005

Grades: 9 – 12

Prerequisite: Beginning Guitar or instructor approval

Length of course: 1 semester/1 credit

Description and credit type: (fine art or unrestricted elective) **H**

This course builds on the fundamentals of music reading and beginning guitar techniques learned in Beginning Guitar. Students will continue to improve their musical understanding and playing skills as they study music from a variety of styles and cultures. Students must purchase their own copy of the class text and have an acoustic guitar.

PERCUSSION TECHNIQUES

Course 125045 A & B

Grades: 9 – 12

Prerequisite: Must have been enrolled in band at the 8th grade level, or have previous experience in an instrumental music class or ensemble

Length of course: 1 year/2 credits

Materials fee: \$45 enrichment fee, method book(s) purchase and \$50 school-owned instrument rental/percussion fee by semester, if applicable.

Description and credit type: (fine art or unrestricted elective) **H**

Students in this class will study basic through advanced percussion technique. They will have an opportunity to study marching percussion, concert percussion, drum-set, and world percussion. Students will be exposed to diverse musical styles and investigate the historical/multi-cultural roles of percussion. This is a performance-based class. Students will be expected to perform in public, and at school assemblies and events.

CONCERT BAND

Course 125015 A & B

Grades: 9 – 12

Prerequisite: Previous band course work in middle school, junior high school, or pre-approval of director

Length of course: 1 year/2 credits

Materials fee: \$45 enrichment fee, method book(s) purchase and \$50 school-owned instrument rental/percussion fee by semester, if applicable

(Fees subject to change)Description and credit type: (fine art or unrestricted elective) **H**

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

MARCH/CONCERT BAND**Grades:** 9 – 12**Prerequisite:** Previous band course work in middle school, junior high school, or pre-approval of director**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

SYMPHONIC BAND

Course 125055 A & B

Grades: 9 – 12**Prerequisite:** By audition only**Length of course:** 1 year/2 credits**Materials fee:** \$45 enrichment fee, method book(s) purchase and \$50 school-owned instrument rental/percussion fee by semester, if applicable (*Fees subject to change*)**Description and credit type:** (fine art or unrestricted elective) **H**

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

WIND ENSEMBLE

Course 125060 A & B

Grades: 9 – 12**Prerequisite:** By audition only**Length of course:** 1 year/2 credits**Materials fee:** \$45 enrichment fee, method book(s) purchase and \$50 school-owned instrument rental/percussion fee by semester, if applicable**Description and credit type:** (fine art or unrestricted elective) **H**

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies and school events.

STRING ORCHESTRA

Course 125050 A & B

Grades: 9 – 12**Prerequisite:** Previous string instrument course work in middle school, junior high, previous school, community-sponsored string/orchestra ensemble, or private instruction**Length of course:** 1 year/2 credits**Materials fee:** \$45 enrichment fee, method book(s) purchase, and \$50 school-owned instrument rental/percussion fee by semester, if applicable**Description and credit type:** (fine art or unrestricted elective) **H**

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

JAZZ ENSEMBLE

Course 125035 A & B

Grades: 9 – 12**Prerequisite:** Approval (audition) by instructor only**Length of course:** 1 year/2 credits**Materials fee:** \$45 enrichment fee, method book(s) purchase and \$50 school-owned instrument rental/percussion fee by semester, if applicable. Purchase of costume/performance attire as required**Description and credit type:** (fine art or unrestricted elective) **H**

Jazz band students learn and perform the music styles associated with jazz and improvisation. Instrumentation is that of the standard jazz big band. Performance and sectional rehearsals scheduled outside the regular school day are required. Students will be expected to participate in public performances, assemblies, and school events. Students may be required to purchase performance attire.

ADVANCED JAZZ ENSEMBLE**Grades:** 9 – 12**Prerequisite:** Approval (audition) by instructor only**Length of course:** 1 year/2 credits**Materials fee:** \$45 enrichment fee, method book(s) purchase and \$50 school-owned instrument rental/percussion fee by semester, if applicable. Purchase of costume/performance attire as required.**Description and credit type:** (fine art or unrestricted elective) **H**

Advanced jazz band students learn and perform the music styles associated with jazz and improvisation. Instrumentation is that of the standard jazz big band. Performances and sectional rehearsals scheduled outside the regular school day are required. Students may be required to purchase performance attire.

CONCERT CHOIR

Course 124010 A & B

Grades: 9 -12**Prerequisite:** None**Length of course:** 1 year/2 credits**Materials fee:** \$30**Description and credit type:** (fine art or unrestricted elective) **H**

This course is a beginning vocal group that studies and performs all styles of music. Students will learn fundamentals of vocal production and improve musical skills. Students will be expected to participate in public performances, assemblies, and school events. Students may be required to purchase performance attire.

TENOR BASS CHOIR

Course 124026 A & B

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Materials fee:** \$30**Description and credit type:** (fine art or unrestricted elective) **H**

Students will develop vocal technique while studying standard musical literature in a variety of popular and traditional genres. Students will develop performance-level skills necessary to participate and perform in a vocal ensemble.

FESTIVAL SINGERS

Course 124015 A & B

Grades: 10 – 12**Prerequisite:** Previous choral experience**Length of course:** 1 year/2 credits**Materials fee:** \$30**Description and credit type:** (fine art or unrestricted elective) **H**

The Festival Singers is an advanced vocal group which performs music from the Renaissance to challenging contemporary choral works. Dedication and commitment are an important part of this group. Festival singers perform at school and community events as well as festivals and competitions. Students are asked to put in outside practice time. Students may be required to purchase performance attire.

MIRINESSE

Course 124900 A & B

Grades: 11 – 12**Prerequisites:** By audition only**Length of course:** 1 year/2 credits**Materials fee:** \$30**Description and credit type:** (fine art or unrestricted elective)

This elite women's ensemble performs difficult vocal jazz and musical literature throughout the school year. Members of this group should also be prepared to dance. Many concerts outside the school day are required. Good attendance and team skills are a must. Students are asked to put in outside practice time and may be asked to provide a performing uniform. Students are expected to participate in public performances, school assemblies, and events.

SINGSATIONS**Grades:** 11 – 12**Prerequisite:** By audition only**Length of course:** 1 Year/2 credits**Materials fee:** \$30**Description and credit type:** (fine art or unrestricted elective) **H**

This elite group performs difficult vocal jazz and musical literature throughout the school year. Members of this group should also be prepared to dance. Many concerts outside the school day are required. Good attendance and team skills are a must. Students are asked to put in outside practice time and may be asked to provide a performing costume. Students are expected to participate in public performances, school assemblies, and events.

THEATER/DRAMA 1**Course 056200****Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Students will be introduced to the elements of theater and production. **This course is an introduction to theater and drama with an emphasis on background and structure, varieties and technique.**

THEATER/DRAMA 2**Course 056205****Grades:** 9 – 12**Prerequisite:** Theatre 1 or its equivalent**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Students will build upon the knowledge and skills of acting and theater production. **This course is a continuation of Theater/Drama 1 and provides students a solid background in the structure, varieties, and history of drama and will enhance skills in acting and theater production.**

THEATRE 3: ADVANCED ACTING**Course 056635****Grades:** 10 – 12**Prerequisite:** Theater/Drama 1 and Theater/Drama 2, or instructor approval**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Students will refine their skills in the areas of improvisation, pantomime, stage movement, characterization, and voice control as they develop performance techniques.

THEATRE 4: DIRECTING**Course 056640****Grades:** 11 – 12**Prerequisite:** Theatre 3, or instructor approval**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Students will develop techniques of directing including script analysis and editing, auditions and casting, productive rehearsals, and performance.

STAGECRAFT 1**Course 056420 A & B****Grades:** 9 - 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Students are introduced to the variety of programs and occupations in the arts, audio/video technology, and production. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster, and the knowledge, skills, and educational requirements for those opportunities. This course is part of the Career and Technical Education Secondary Pathways.

STAGECRAFT 2**Course 056425 A & B****Grades:** 9 - 12**Prerequisite:** Stagecraft 1**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Students will be introduced to methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes and multimedia. Students will explore the proper procedures for serving on stage crews. This course is part of the Career and Technical Education Secondary Pathways.

IB THEATRE ARTS I HL***Grade:** 11**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (fine art or unrestricted elective) **H**

This course is designed to meet the higher level requirements of the IB diploma and District 20 High School diploma. With respect to the IB Diploma, this course fulfills the sixth subject area of study and higher level course required by the IB Programme. The IB designed curriculum in this course involves a discipline based, integrated approach to theater. Areas of studies include theatre culture, practice, theory, and performance. Projects include an oral play analysis, play production, and a dramaturgical research project. The course is recommended for the serious theatre arts student. For the IB candidate, completion of this course is considered preparation to sit for the higher level exam and serves as a sixth subject. **This class qualifies for course candidacy. Successful students receive a certificate upon completion of class and passing examination.**

IB THEATRE ARTS II HL*

Course 056611 A & B

Grade: 12**Prerequisite:** IB Theatre Arts HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (fine art or unrestricted elective) **H**

This course is the second year, higher level continuance of IB Theatre Arts I. It is designed to meet the requirements of both the IB Diploma and District 20 high school diploma. With respect to the IB Diploma, this course fulfills the sixth subject area of study required by the IB Programme. With respect to the District 20 diploma, this course can serve as an elective or an arts credit and will be accepted as such by most colleges and universities. The IB designed curriculum in this course involves the continuation of a study of theatre culture, practice, and theory, as well as performance. The Higher Level student is also expected to complete an independent study research project as well as the play analysis and dramaturgical research paper required in the class. For the IB candidate, completion of this course is considered preparation to sit for the higher level exam and serves as a sixth subject. **At the conclusion of this course, students will be prepared for and expected to take the IB assessment for college credit.**

MUSIC APPRECIATION

Course 127000

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

Music Appreciation is an exploratory music class that covers many types of music, including, but not limited to, Baroque, Classical, Jazz, Latin, and Rock styles. Students in this class have the opportunity to listen to music, watch videos, and perform presentations in class, on music that they enjoy. This class is open to anyone who likes music and desires to learn more about how today music evolved from the music of previous eras.

BEGINNING MUSIC THEORY

Course 123000

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

This course is a comprehensive introduction to the fundamentals of music, including music reading, ear training, harmonic writing, and keyboard harmony. It is of special interest to the potential college music major and career musician. **It is highly encouraged that students who enroll in this course are proficient in playing a musical instrument or singing and can comfortably read western music notation. Enrollment in a Rampart High School performing music ensemble is also highly recommended.**

INTERMEDIATE MUSIC THEORY

Course 123005

Grades: 10 – 12**Prerequisite:** Beginning Music Theory or instructor approval**Length of course:** 1 semester/1 credit**Description and credit type:** (fine art or unrestricted elective) **H**

This course builds on the fundamentals taught in Beginning Music Theory and includes advanced music reading, advanced ear training, advanced harmonic writing, and advanced keyboard harmony. This course is of special interest to the potential college music major and career musician.

CTE

CAREER AND TECHNICAL EDUCATION

BUSINESS & MARKETING

COMPUTER SCIENCE

MEDIA

CONSUMER & FAMILY STUDIES

JOURNALISM

BUSINESS & MARKETING

Overview of Courses

Students enrolled in business classes also have the opportunities to get involved in DECA and FBLA. Future Business Leaders of America (FBLA) and Distributive Education Clubs of America (DECA) are the student leadership organizations aligned with business and marketing education courses. FBLA and DECA provide the opportunity for students to compete at local, state, and national competitions in a variety of essential business and marketing subjects while developing competent leadership skills. See your business or marketing teacher for more information about joining FBLA and DECA. Students may take certain high school courses for college credit as well as high school credit (dual credit). An @ next to the course title indicates the class may be eligible for dual credit. Additional fees and curriculum requirements may apply. See your teacher or counselor for more information.

IT'S YOUR BUSINESS: AN INTRODUCTION

Course 030005

Grades: 9 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (unrestricted elective) **H**

This course introduces the student to the world of business, an area that affects each of us. Topics may include basic economics, credit, banking, insurance, consumerism, income tax, entrepreneurship, careers, and the stock market. **Students have the opportunity to become members of Future Business Leaders of America (FBLA).**

BUSINESS LAW 1

Course 033300

Grades: 9 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (unrestricted elective) **H**

In our private enterprise economy, the relationship of business, government, and individuals can be very complex. This course gives the student a broad knowledge base of how our legal system began, how it has evolved, and what might influence its future development. Topics may include: The Constitution, Ethics in Law, Crimes and Torts, Laws for Special Groups, Making Binding Agreements, and Contracts for Buying and Selling Goods. **Students have the opportunity to become members of Future Business Leaders of America (FBLA). Students may have the opportunity to attend a field trip of a behind the scenes tour of the El Paso County courthouse and hear from a district attorney in the classroom.**

SPORTS ENT MKTG 1

Course 040032

Grades: 9 - 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (fine art or unrestricted elective) **H**

Students will explore marketing functions and techniques as they relate to sports and entertainment marketing.

PERSONAL FINANCE

Course 034800

Grades: 10 – 12

Prerequisite: None

Length of course: 1 year/2 credits

Description and credit type: (unrestricted elective)

Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes. This course is part of the Career and Technical Education Secondary Pathways. **The Dave Ramsey Financial Peace school curriculum and Rich Dad Poor Dad books are used as supplemental materials in this course.**

BUSINESS ECONOMICS**Grade:** 11 – 12**Prerequisites:** 6 credits of social studies or 1 business/marketing credit**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective) **H**

In this course students will make reasoned judgments about both personal economic questions and broader questions of economic policy. Students will also gain knowledge of the stock market, different types of economic systems, supply and demand, money and banking, business organizations, competition, taxation, financial institutions, the role of government in the economy, and the emerging global economy. This course is extremely useful in preparing for further study of economics in college as well as practical application to the business world. **An outside business consultant from Junior Achievement may enhance classroom instruction to bring in additional information and real-world experience. This course provides students with a foundation in personal financial literacy. Students have the opportunity to become members of Future Business Leaders of America (FBLA). Students will have the opportunity to participate in a state-wide online stock market challenge.**

BUSINESS INTERNSHIP LAB

Course 034301 A & B

Grade: 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Description and credit type:** (unrestricted elective) **H**

Business internship Lab is a coordinated occupational employment approach to teaching and practicing the concepts in the industry. This course helps the student to practice and improve employability skills in an industry setting. This course prepares student for careers in any of the following dynamic industries, computer, banking/finance, legal real estate, accounting, public relations, human resources, education, government, insurance, entertainment and university studies. Students will be encouraged to join the Future Business Leaders of America Career and Technical Student Organization. Students must be concurrently enrolled in Business Internship. **Any student who has a paid or unpaid job working at least 20 hours a month should sign up for this class to get credit for working.**

IB BUSINESS MANAGEMENT SL*

Course 034620 A & B

Grades: 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (unrestricted elective) **H**

IB Business and management is a rigorous and dynamic discipline that examines business decision-making processes and how these decisions impact on and are affected by internal and external environments. It is designed to develop an understanding of business theory, as well as an ability to apply business principles, practices and skills decision-making and the day-to-day business functions of marketing, production, human resource management and finance. The business and management course aims to help students understand the implications of business activity in a global market and it is designed to give students an international perspective of business and to promote their appreciation of cultural diversity. The core curriculum consists of five topics: 1) Business organization and environment; 2) Human resources; 3) Accounts and finance; 4) Marketing; and 5) Operations management. IB assessments (exams and written commentary) cover all five topics. IB Business and Management is a Sixth Subject elective. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

MARKETING 1/DECA

Course 040000 A & B

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Materials fee:** Local/state/national dues for DECA \$70**Description and credit type:** (unrestricted elective) **H**

Students are introduced to business and marketing by exploring such topics as promotion, selling, communication, leadership, human relations, and career opportunities including applications and interviews. **Marketing 1 introduces students to the exciting world of business and marketing. In this challenging course topics include marketing, promotion, personal selling, communication, leadership, job application and interview, and human relations. Students will apply their business knowledge and skills by managing and operating the DECA Concession Lab and/or the DECA student-run lunch program. Within these lab operations students will research, design, advertise, purchase, and sell various school products and food items. Students will have the opportunity to become a DECA member. DECA is the co-curricular student organization that allows for student participation in district, state, and national marketing competitions. Through DECA, students will participate in social activities, community service projects, leadership development, and career awareness projects. Marketing 1 students, who are juniors and seniors may also enroll in the Marketing Cooperative Training class if employed in a marketing-related job. Rampart DECA no longer runs the school's lunch program and therefore does not offer experience for students to work the lunch program.**

MARKETING 2/DECA @**Grades:** 10 – 12**Prerequisite:** Marketing 1**Length of course:** 1 year/2 credits**Materials fee:** Local/state/national dues for DECA \$70**Description and credit type:** (unrestricted elective) **H**

Students will increase knowledge and proficiency in the areas introduced in previous marketing courses. **Marketing 2 is a course for juniors and seniors who are interested in continuing their education in marketing and marketing-related topics. Topics include advertising, selling, economics, sports and entertainment marketing, event marketing, business services, hospitality, reviewing marketing concepts. Classroom instruction will be based on marketing projects with an emphasis on creativity, leadership, advertising and promotional campaigns, advanced sales techniques, communication in human relations, problem solving, successful presentations, and other group projects. Students will have the opportunity to become a DECA member. DECA is the co-curricular student organization that allows for student participation in district, state, and national marketing competitions. Through DECA, students will participate in social activities, community service projects, leadership development, and career awareness projects. Marketing 2 students can also enroll in the Marketing Cooperative Training class if employed in a marketing related job.**

ADVANCED MARKETING/DECA

Course 040010 A & B

Grades: 11-12**Prerequisite:** Marketing 2**Length of course:** 1 year/2 credits**Weighted grade:** No**Materials fee:** Local/state/national dues for DECA \$70**Description and credit type:** (unrestricted elective) **H**

Students will continue to build upon knowledge and skills learned in previous marketing courses. **This course is for juniors and seniors who are interested in advanced marketing topics. Topics will include business management, international business, entrepreneurship, communication, finance, current business strategies and professional presentations. Classroom instruction will feature individual and group project work. Students will read current business books and utilize the Internet for research-based projects. Students will have the opportunity to become a DECA member. DECA is the co-curricular student organization that allows for student participation in district, state, and national marketing competitions. Through DECA, students will participate in social activities, community service projects, leadership development, and career awareness projects. Students may also enroll in the Marketing Cooperative Training classes if they are employed in a marketing related job.**

COMPUTER SCIENCE

Overview of Courses

COMPUTER APPLICATIONS 1

Course 161000

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1credit**Description and credit type:** (unrestricted elective) **H**

This course provides students with skills for professional communication and presentations using a range of devices and software applications. Students will learn and practice digital citizenship and information literacy. **This course provides students with computer skills needed for completing many daily business and personal tasks. The course covers proper keyboarding technique to ensure speed and accuracy, the proper formatting of business letters, reports, tables, and memos. Additional topics may include speech recognition, numeric keypad, and basic Microsoft Word.**

PROGRAMMING 1

Course 163015

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1credit**Description and credit type:** (unrestricted elective) **H**

The objective of this course is to teach problem-solving strategies and develop critical thinking skills by studying the fundamental principles of structured computer programming in C++ and/or Java. The student will develop algorithms and express them in top-down diagrams. Topics may include data types, variables, mathematical and logical operations, strings, character arrays, input, output, conditional statements, loop structures, and functions.

PROGRAMMING 2**Course 163020****Grades:** 9 – 12**Prerequisite:** Programming 1**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective) **H**

This course is a continuation of the principles of structural programming introduced in Programming 1. Topics may include loops, advanced use of functions, pointers, structures, data files, arrays, and an introduction to object-oriented programming.

WEB DESIGN 1**Course 163025****Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credits**Description and credit type:** (unrestricted elective)

Using industry standard software, this course introduces the fundamentals of web design and implementation. Students study web aesthetics and intuitive interface design. The course emphasizes file organization and layout including tables and frames, and the creation of web-optimized image elements. Students will be introduced to basic HTML scripting.

CYBERSECURITY 1**Course 169080 A & B****Grade:** 9 – 12**Prerequisite:** None**Length of Course:** 1 year/2 credits**Description and credit type:** (unrestricted elective)

Students will apply concepts of data security, system administration, network administration, and programming to the study of cybersecurity. Through critical thinking, investigation of real-world issues and practical exercises, students will develop foundational cybersecurity skills. Students will adhere to and demonstrate computer security ethics.

CYBERSECURITY 2**Course 169085 A & B****Grade:** 10 – 12**Prerequisite:** Cybersecurity 1**Length of Course:** 1 year/2 credits**Description and credit type:** (unrestricted elective)

Students will apply advanced concepts of data security, system administration, network administration and programming to prevent cybersecurity attacks and mitigate cybersecurity threats in a test lab environment. Through critical thinking, investigation of real-world issues and practical exercises, students will refine cybersecurity skills while adhering to and modeling computer security ethics.

MEDIA

Overview of Courses

SPORTS BROADCASTING**Course 191097****Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$5**Description and credit type:** (unrestricted elective)

Students will learn about and apply modern live broadcast technology specifications and limitations to real world situations, as well as learn and apply the basics of commentating for athletic events of many types. The students will create live broadcasts with advanced graphics/scoreboards, scheduled pre and post-game interviews, in-depth play-by-play coverage, and advanced multi-camera use for assigned athletic events. These broadcasts will be portfolio quality for students who want to apply to post-secondary journalism programs or apply for a job in the broadcast journalism industry.

SPORTS BROADCASTING 2**Course 191106****Grades:** 10 - 12**Prerequisite:** Sports Broadcasting**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective)

Students will learn about and apply modern live broadcast technology specifications and limitations to real world situations, as well as learn and apply the basics of commentating for athletic events of many types. Students will create live broadcasts with advanced graphics/scoreboards, scheduled pre and post-game interviews, in-depth play-by-play coverage, and advanced multi-camera use for assigned athletic events. These broadcasts will be portfolio quality for students who want to apply to post-secondary journalism programs or apply for a job in the broadcast journalism industry. In this higher level course, students will provide leadership for the program. This course is part of the Career and Technical Education Secondary Pathways.

SPORTS BROADCASTING 3**Course 191107****Grades:** 10 – 12**Prerequisite:** Sports Broadcasting 2**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective)

Students will continue to build knowledge and develop skills in modern live broadcast technology and commentating for athletic events of many types. The students will create live broadcasts with advanced graphics/scoreboards, scheduled pre- and post-game interviews, in-depth play-by-play coverage, and advanced multi-camera use for assigned athletic events. These broadcasts will be portfolio quality for students who want to apply to post-secondary journalism programs or apply for a job in the broadcast journalism industry. In this higher level course, students will provide leadership for the program. This course is part of the Career and Technical Education Secondary Pathways.

SPORTS BROADCASTING 4**Course 191108****Grades:** 10 - 12**Prerequisite:** Sports Broadcasting 3**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective)

Students will apply knowledge and skills in modern live broadcast technology and commentating to create live broadcasts with advanced graphics/scoreboards, scheduled pre- and post-game interviews, in-depth play-by-play coverage, and advanced multi-camera use for assigned athletic events. These broadcasts will be portfolio quality for students who want to apply to post-secondary journalism programs or apply for a job in the broadcast journalism industry. In this higher level course, students will provide leadership for the program. This course is part of the Career and Technical Education Secondary Pathways.

ELECTRONIC MEDIA 1**Course 191090 A & B****Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Materials fee:** \$10**Description and credit type:** (core or unrestricted elective)

Students will learn and apply techniques of storytelling, and audio/video production and post-production. Students will learn and apply a variety of distribution methods. **This class is responsible for the production of the electronic broadcast media, TV and video production, and the school's video announcements. Students will learn in-depth interviewing techniques and expand their knowledge of audio and visual techniques.**

ELECTRONIC MEDIA 2**Course 191095 A & B****Grades:** 10 – 12**Prerequisites:** Electronic Media 1 and approval of instructor**Length of course:** 1 year/2 credits**Materials fee:** \$10**Description and credit type:** (core or unrestricted elective)

Students will continue to expand their knowledge and use of techniques of storytelling, and audio/video production and post-production and distribution methods. **-This class is responsible for the production of the electronic broadcast media, television, and video production, and the school's video announcements. Students also create documentary and narrative video productions and chronicle various school activities.**

ELECTRONIC MEDIA 3**Course 191092 A & B****Grades:** 11 - 12**Prerequisites:** Electronic Media 2 and approval of instructor**Length of course:** 1 year/2 credits**Materials fee:** \$10**Description and credit type:** (core or unrestricted elective)

Students will continue to develop skills used in the production of advanced film production, including in the areas of electronic broadcast media, television, video production, and video announcements. Students will create documentary and narrative video productions and chronicle various school activities. In this higher level course, students will provide leadership for the program. This course is part of the Career and Technical Education Secondary Pathways.

ELECTRONIC MEDIA 4**Course 191093 A & B****Grades:** 12**Prerequisites:** Electronic Media 3 and approval of instructor**Length of course:** 1 year/2 credits**Materials fee:** \$10**Description and credit type:** (core or unrestricted elective)

Students will continue to improve and demonstrate skills and techniques learned in previous Electronic Media courses, focusing on the area of advanced film production. Students will create higher level video productions showing creativity and proficiency, and will continue to provide leadership for the program. This course is part of the Career and Technical Education Secondary Pathways.

SPEC EFFECTS, ADV EDITING/MOTION GRAPHICS**Course 109055****Grades:** 10 – 12**Prerequisite:** Electronic Media 1**Length of course:** 1 semester/1 credit**Materials fee:** \$5**Description and credit type:** (unrestricted elective)

Students will learn about and apply advanced special effects to compositing productions in Adobe After Effects, Cinema 4D, and several other advanced filming and video post-production techniques. The students will create productions with advanced titling, compositing, 3D digital animation, motion graphics, and advanced editing techniques. These productions will be portfolio quality for students who want to apply to film school or apply for a job in the video production industry.

CYBERSECURITY 1**Course 169080 A & B****Grade:** 9 – 12**Prerequisite:** None**Length of Course:** 1 year/2 credits**Description and credit type:** (unrestricted elective)

Students will apply concepts of data security, system administration, network administration, and programming to the study of cybersecurity. Through critical thinking, investigation of real-world issues and practical exercises, students will develop foundational cybersecurity skills. Students will adhere to and demonstrate computer security ethics.

CYBERSECURITY 2**Course 169085 A & B****Grade:** 10 – 12**Prerequisite:** Cybersecurity 1**Length of Course:** 1 year/2 credits**Description and credit type:** (unrestricted elective)

Students will apply advanced concepts of data security, system administration, network administration and programming to prevent cybersecurity attacks and mitigate cybersecurity threats in a test lab environment. Through critical thinking, investigation of real-world issues and practical exercises, students will refine cybersecurity skills while adhering to and modeling computer security ethics.

IB DP FILM I***Course 191098 A & B****Grade:** 11 – 12**Prerequisite:** None**Length of Course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (fine arts or unrestricted elective) **H**

Students will gain understanding of film as a complex art form, the ability to formulate stories and ideas in film terms, the practical and technical skills of production, and critical evaluation of film productions. Students will also further their knowledge of film-making traditions in other countries.

IB DP FILM II*

Course 191099 A & B

Grade: 12

Prerequisite: IB DP Film I

Length of Course: 1 Year/2 credits

Weighted grade: Yes

Description and credit type: (fine arts or unrestricted elective) **H**

Upon completion of IB DP Film I, students will further gain an understanding of film as a complex art form, the ability to formulate stories and ideas in film terms, and the practical and technical skills of production, and critical evaluation of film productions. Students will also further their knowledge of film-making traditions in other countries. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

CONSUMER & FAMILY STUDIES

Overview of Courses

CHILD AND ADOLESCENT DEVELOPMENT

Course 092000

Grades: 10 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (unrestricted elective)

How do humans develop mentally, socially, and physically? Students will study the underlying principles and skills needed to work with children of all ages and the factors that promote the healthy emotional and physical development of the child. Students will learn about brain development, growth of the self-concept, discipline, learning experiences, and guidance of children that relates to parent/caregiver effectiveness.

THE PSYCHOLOGY OF RELATIONSHIPS

Course 092900

Grades: 10 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (unrestricted elective)

This course introduces students to many of the principles discovered through research in the area of social science called family science. Students will gain a deeper understanding of what builds successful families, as well as the science behind it. These skills enable students to develop more effective relationships within the school, home, and community.

LIVING ON YOUR OWN

Course 090000

Grades: 11 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (unrestricted elective)

This course is designed to help students examine, evaluate, and manage the resources that aid in developing personal and family goals as they prepare to live independently of their parents. Students will study the integration of family, community, and career responsibilities while analyzing factors that contribute to a healthy lifestyle and relationships. Students gather information to assist them in making informed consumer decisions. Students practice decision-making and problem-solving skills as they examine real-life situations pertaining to living independently including employment, housing, finances, individual wellness, family needs, savings, credit, and taxes.

EARLY CHILDHOOD EDUCATION

Course 093120

Grades: 10 - 12

Prerequisite: Level I FACS Course

Length of course: 1 semester/1 credits

Description and credit type: (unrestricted elective) **H**

Students will be introduced to skills required to secure employment as a teaching assistant in a childcare center, preschool or elementary school (focus is on ages birth to eight). In both classroom and child care facility settings, students will receive training in the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; and Administration and Supervision. This course is part of the Career and Technical Education Secondary Pathways

JOURNALISM

Overview of Courses

JOURNALISM

Course 054305

Grades: 9 – 11**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (core elective) **H**

This course will serve as an introduction into various areas of journalism, media, and news, to include print media, digital media, and social media. Students will learn various aspects of journalism and media. Aspects will include the history of media and news, principles of ethics, bias, and laws related to media, interviewing techniques, marketing and audience engagement, news gathering and literacy, writing, photojournalism, and design. **Students will demonstrate their understanding of a variety of programs and occupations in print media using industry standard digital tools. Students will learn about topics such as photo-journalism, interviewing, copywriting and editing, caption and headline writing, design and layout, as well as participate in hands-on lab experiences in verbal and visual community reporting. This course is the prerequisite for Yearbook. This course is part of the Career and Technical Education Secondary Pathways.**

YEARBOOK

Course 054900 A & B

Grades: 10 – 12**Prerequisites:** Yearbook Journalism in 22-23 or 23-24 SY OR Journalism**Length of course:** 1 year/2 credits**Description and credit type:** (core elective)

This class is responsible for the production of the school's yearbook. Students will learn various types of software involved in publishing as well as basic principles of journalism, publishing, and layout design. **Students will apply principles of journalism, publishing, layout, and photography. Students will attend scheduled conferences and activities during and outside of school hours. There will be work sessions and yearbook assignments outside of regular class hours necessary to provide coverage of school events and to meet publishing deadlines. This class may be taken more than once for credit.**

ENGLISH

Overview of Courses

ENGLISH I

MYP ENGLISH II

AMERICAN LITERATURE & COMPOSITION

COMPOSITION AND LITERATURE 4

NATIVE AMERICAN LITERATURE

AP ENGLISH LANGUAGE AND COMPOSITION

AP ENGLISH LITERATURE AND COMPOSITION

IB ENGLISH LANGUAGE AND LITERATURE HL I

IB ENGLISH LANGUAGE AND LITERATURE HL II

SPEECH

MYTHOLOGY

CREATIVE WRITING 1

CONTEMPORARY LITERATURE

FILM AS LITERATURE 1

ENGLISH I**Grade:** 9**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (English) **H** ►

This course emphasizes student proficiencies in grammar, writing, reading, speaking, listening, vocabulary and spelling. Students will learn the elements of literature and the writing process.

MYP ENGLISH II

Course 050055 A & B

Grade: 10**Prerequisite:** MYP English I or equivalent**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (English) **H** ►

This course will meet the English requirement for 10th grade. In addition to the components of American Literature, MYP English II will include Literature of America. Students will develop and refine higher level thinking skills in addition to refining strong oral and written communication skills in preparation for IB Language A1 courses as well as for the full IB Diploma Programme. **This is the RHS Sophomore English course.**

AMERICAN LITERATURE & COMPOSITION

Course 053145 A & B

Grade: 11**Prerequisite:** MYP English I and II or equivalent**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (English) **H** ►

This course emphasizes the study of American literature and uses that study as a vehicle for refining vocabulary, grammar, writing and oral communication skills. **This course will meet the English requirement for 11th grade. This course emphasizes the Literature of America. In this course, students will read, study the components of, and interpret representative works of American Literature. Students will sharpen critical thinking skills, strengthen writing skills, and utilize various rhetorical strategies. In addition, this course will prepare students for subsequent English Language Arts and 21st Century competencies.**

COMPOSITION AND LITERATURE 4

Course 050025 A & B

Grade: 12**Prerequisite:** American Literature and Composition or equivalent**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (English) **H** ►

This class prepares seniors for freshman college English composition courses and introduces a spectrum of traditionally canonical literature with which college-bound students are expected to be familiar. Students will write analyses of literature as well as a variety of essays including narration, description, persuasion and exposition. **This course will familiarize students with the insights of major literary periods of literature and introduce a spectrum of contemporary works. Students will engage in analyses of literature, reading literature from a variety of perspectives, and compose varied writing assignments.**

NATIVE AMERICAN LITERATURE

Course 053240

Grade: 11 - 12**Prerequisite:** MYP English II**Length of course:** 1 semester/1 credit hours**Weighted grade:** No**Description and credit type:** (Core Elective) **H** ►

Students will explore a diverse body of literature authored by Native peoples of North America. Using various media, students will explore contemporary fiction, non-fiction, and poetry by Native American writers. In addition, students will analyze oral, written and visual storytelling and record-keeping methods with an emphasis on traditions.

AP ENGLISH LANGUAGE AND COMPOSITION***Grade:** 11 – 12**Prerequisite:** MYP English I and II or equivalent**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (English) **H** ►

The purpose of the AP English Language and Composition course is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively. At the conclusion of this course, students will be prepared for and expected to take the AP exam for potential college credit. This is a college course that emphasizes a study of rhetoric and both nonfiction and fiction writing and analysis. **This course requires the purchase of additional novels. A limited number of books are available for checkout at no cost but borrowed materials may not be annotated. The required reading list will be available on the RHS website.**

AP ENGLISH LITERATURE AND COMPOSITION*

Course 054000 A & B

Grade: 12**Prerequisite:** American Literature and Composition, or AP Language and Composition**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (English) **H** ►

At the conclusion of this course students will be prepared for and expected to take the AP exam for potential college credit. AP courses are not college preparatory – they are considered college-level courses. Students engage in careful reading and critical analysis of imaginative literature from a variety of perspectives and for a variety of audiences. **This course requires the purchase of additional novels. A limited number of books are available for checkout at no cost but borrowed materials may not be annotated. The required reading list will be available on the RHS website.**

IB ENGLISH A: LANG AND LIT HL I*

Course 050040 A & B

Grade: 11**Prerequisite:** MYP English II**Length of Course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (English) **H** ►

The first of the two-year DP Language & Literature course has been designed to meet the requirements of both the IB diploma and the District 20 high school diploma. Key aims of the course are to develop textual analysis skills and to analyze the meaning generated by language and texts through an understanding of culturally determined reading practices.

IB ENGLISH A: LANG AND LIT HL II *

Course 051911 A & B

Grade: 12**Prerequisite:** IB English A: Lang and Lit HL I**Length of Course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (English) **H** ►

The second year of the two-year Language A (IB English IV) course has been designed to meet the requirements of both the IB diploma and District 20 high school diploma continuum. Close critical analysis of international literary works, prescribed by IBO, in a range of literary genres will serve as a foundation, along with independent research, for both composition and oral articulation. An IB-designated curriculum will stress full text masterpieces and groups of works by one author. One internally assessed and externally moderated oral product and one critical analysis paper centered in world literature will be evaluated by IBO. Additionally, two externally assessed May examinations—one in commentary format, the second a formal comparative literature essay—will be required as a fulfillment of the IB Language A English 1 curriculum.

SPEECH

Course 055000

Grade: 9 – 12**Prerequisite:** None**Length of course:** 1 Semester/1 credit**Description and credit type:** (core elective) **H** ►

This course includes writing and delivering speeches for a variety of purposes. Students will develop communication and public speaking skills including audience analysis, organization, content, and delivery.

MYTHOLOGY**Grades:** 10 – 12**Prerequisite:** MYP English I or equivalent**Length of course:** 1 semester/1 credit**Description and credit type:** (core elective) **H** ▶

Students will study connections between classical myths and myths of modern culture. **Students will read "ancient" myths from around the world, medieval hero tales, folk and fairy tales, and modern novels. The class will also compare modern "mythology" in the form of films. This class will cover literature from King Arthur to The Wizard of Oz to The Lord of the Rings and will analyze the importance of myth to all cultures, even our current, technology-driven society.**

CREATIVE WRITING 1

Course 054200

Grades: 10 – 12**Prerequisite:** MYP English I or equivalent**Length of course:** 1 semester/1 credit**Description and credit type:** (core elective) **H** ▶

In this course, students will explore many writing genres. The goal of the course is to help students identify quality writing and to realize the importance of accurately observing and interpreting their surroundings.

CONTEMPORARY LITERATURE

Course 053200

Grades: 11 – 12**Prerequisite:** MYP English I and II or equivalent**Length of course:** 1 semester/1 credit**Description and credit type:** (core elective) **H** ▶

Through this course students will develop an understanding of trends in fiction, drama, film, personal essay, and poetry. Reading materials will be selected from a variety of print genres. Analysis and class discussion of texts and writing about social issues will be emphasized.

FILM AS LITERATURE 1

Course 053900

Grades: 11 – 12**Prerequisite:** MYP English I and MYP English II or equivalent**Length of course:** 1 semester/1 credit**Description and credit type:** (core elective) **H** ▶

Through this course students will analyze film as a record of human experience while focusing on the literary elements inherent in the film genre.

MATHEMATICS

Overview of Courses

ALGEBRA I

MYP ALGEBRA II

ALGEBRA 2

ALGEBRA 3

MYP ALGEBRA I/MYP GEOMETRY COMBO

MYP GEOMETRY

GEOMETRY

ALGEBRAIC BUSINESS CALCULATIONS

STATISTICS

COMPUTATIONAL MATHEMATICS

AP STATISTICS

AP PRECALCULUS

AP CALCULUS AB

AP CALCULUS BC

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION SL

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION HL I

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION HL II

Calculator Use Policy: Students need to have a calculator for all math classes. Since calculators are becoming more advanced, they can give an unfair advantage. Therefore, teachers may restrict students' use of certain types of calculators. For example, the TI-89 has symbolic algebraic manipulation capabilities, and its use may be limited. Suggestions:

- For math levels below Algebra 2, students need at least a scientific calculator.
- For Algebra 2 and above, students should have a graphing calculator. The TI-83 or TI-84 is recommended.

Students may take certain high school courses for college credit as well as high school credit (dual credit). An @ next to the course title indicates the class may be eligible for dual credit. Additional fees and curriculum requirements may apply. See the teacher or counselor for more information.

ALGEBRA I**Course 111100 A & B****Grades:** 9 – 10**Prerequisites:** Pre-Algebra, Applied Algebra**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (math or core elective) **H** ►

Topics consisting of analyzing and solving linear equations, pairs of simultaneous linear equations and functions will be further developed. Students will construct, compare, solve, and analyze linear, quadratic, and exponential functions and inequalities as well as perform arithmetic operations on polynomials. Students will also summarize, represent, and interpret data, including Personal Financial Literacy topics. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice. **A TI 83 or TI 84 calculator is required for this course.**

MYP ALGEBRA II**Course 111210 A & B****Grades:** 9 – 11**Prerequisite:** MYP Geometry or equivalent**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (math or core elective) **H** ►

Topics in previous algebra courses are built upon, and the additional topics of polynomials, rational, exponential, and logarithms functions, as well as matrices, complex numbers, sequences and series, probability and statistics, and trigonometry are presented. Graphing calculators will be used to promote understanding of advanced concepts and develop graphical and numeric solutions. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized. This course is designed to strengthen abstract reasoning and critical thinking skills. **A TI 83 or TI 84 calculator is required for this course.**

ALGEBRA 2**Course 111200 A & B****Grades:** 9 – 12**Prerequisite:** MYP Geometry or equivalent**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (math or core elective) **H** ►

Topics consisting of linear, quadratic and exponential functions and trigonometric ratios will be further developed. Students will interpret, analyze, model, and transform polynomial, rational, trigonometric, and radical functions. Students will solve and justify solutions for polynomial functions including real and complex solutions. Students will solve exponential and logarithmic functions using appropriate technology. Students will also summarize, represent, and interpret data, including Personal Financial Literacy topics. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice. **A TI 83 or TI 84 calculator is required for this course.**

ALGEBRA 3

Grades: 9 – 12

Prerequisite: Algebra 2 or equivalent

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math or core elective) **H** ►

Algebra 3 review and strengthens topics covered in Algebra 2. Further study in trigonometric functions, sequences and series, and conic sections prepares students for success in pre-calculus. **A TI 83 or TI 84 calculator is required for this course.**

MYP ALGEBRA I/MYP GEOMETRY COMBO COURSE

Course 111102 A & B

Grades: 9

Prerequisites: Pre-Algebra, Linear Algebra, or equivalent

Length of course: 1 year/4 credits

Weighted grade: No

Description and credit type: (math) **H** ►

MYP ALGEBRA I (Fall): Topics consisting of analyzing and solving linear equations, pairs of simultaneous linear equations and functions will be further developed. Students will construct, compare, solve, and analyze linear, quadratic, and exponential functions and inequalities as well as perform arithmetic operations on polynomials. Students will also summarize, represent, and interpret data, including Personal Financial Literacy topics. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice.

MYP GEOMETRY (Spring): Topics in two-dimensional and three-dimensional figures including lines, planes, angles, polygons, coordinate geometry, circles, and polyhedrons will be presented. Applications integrate algebraic concepts and use inductive and deductive reasoning to develop. Geometric proofs. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized. **A TI 83 or TI 84 calculator is required for this course.**

MYP GEOMETRY

Course 116025 A & B

Grades: 9 – 10

Prerequisite: MYP Algebra 1 or equivalent

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math) **H** ►

Topics in two-dimensional and three-dimensional figures including lines, planes, angles, polygons, coordinate geometry, circles, and polyhedrons will be presented. Applications integrate algebraic concepts and use inductive and deductive reasoning to develop geometric proofs. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized. **A TI 83 or TI 84 calculator is required for this course. This is the RHS Geometry Course for 9th and 10th grade.**

GEOMETRY

Course 116010 A & B

Grades: 11 – 12

Prerequisite: Algebra 1 or equivalent

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math or core elective) **H** ►

Topics consisting of Pythagorean Theorem, congruence and similarity will be further developed. Students will prove geometric theorems involving similarity, transformation, and congruence of two-dimensional and three-dimensional figures using inductive and deductive reasoning and constructions. Students will solve problems and model real-world situations involving two-dimensional and three-dimensional figures, trigonometric ratios, probability, and Personal Financial Literacy. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice. **A TI 83 or TI 84 calculator is required for this course.**

ALGEBRAIC BUSINESS CALCULATIONS

Course 111915 A & B

Grades: 12

Prerequisites: Algebra 1, MYP Geometry, Geometry

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math or core elective) **H**

Students will learn money-saving tips and business strategies as they apply math to common business transactions. Students will learn about their personal earning power, payroll, banking, savings, compound interest, business costs, consumer credit, credit cards, lottery winnings and annuities, loans, costs of buying a car and home, investments, stocks, bonds, insurance, and financial reporting. The subject material will be taught at the college prep level; however, the instructor will progress at a speed suitable for high school students.

STATISTICS

Course 117000 A & B

Grades: 11 – 12

Prerequisites: MYP Geometry or equivalent

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math or core elective) **H** ►

Statistical concepts to construct simple surveys and experiments will be used to analyze data. Basic statistics covers the collection, organization, and analysis of data. **Topics include quantitative data descriptions, sampling techniques, frequency distributions, measures of central tendency and variability, and elementary probability. Students also will make inferences using multiple statistical models. A TI 83 or TI 84 calculator is required for this course.**

COMPUTATIONAL MATHEMATICS

Course 114000 A & B

Grades: 9 – 12

Prerequisite: MYP Algebra II or Algebra 2

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math or core elective) **H**

Students will explore data analysis, visualization, modeling, and programming through the lens of mathematics. Some of the ways mathematics will be applied to programming include writing functions, analyzing and visualizing vectors and matrices, and writing programs with branching and loops.

AP STATISTICS*

Course 117005 A & B

Grades: 10 – 12

Prerequisite: Algebra 2 or equivalent

Length of course: 1 year/2 credits

Weighted grade: Yes

Materials fee: AP exam cost of \$105 (financial assistance available if qualified)

Description and credit type: (math or core elective) **H** ►

Advanced Placement Statistics is a course that covers topic related to the collection, organization, and analysis of data. Topics include descriptive statistics, probability, simulation, binomial and normal distributions, hypothesis testing, and statistical inference. At the conclusion of this course, students will be prepared for and expected to take the Advanced Placement exam for potential college credit. **A TI 83 or TI 84 calculator is required for this course.**

AP PRECALCULUS

Course 113190 A & B

Grades: 9 – 12

Prerequisite: Algebra 2 or Algebra 3 with a grade of “C” or higher is recommended for this class

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (math or core elective) **H** ►

Students in AP Precalculus will focus on functions modeling dynamic phenomena. Students will develop and hone symbolic manipulation skills, including solving equations and manipulating expressions, and will learn that functions and their compositions, inverses, and representations, are useful for solving problems in mathematical and applied contexts. Students will apply the skills learned to situations that involve quantitative reasoning. Topics include polynomial, rational, exponential, logarithmic, trigonometric, polar and functions involving parameters, vectors, and matrices. These topics are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science. **A TI 83 or TI 84 calculator is required for this course.**

AP CALCULUS AB*

Course 113100 A & B

Grades: 10 – 12

Prerequisite: Pre-calculus or equivalent

Length of course: 1 year/2 credits

Weighted grade: Yes

Materials fee: AP exam cost of \$105 (financial assistance available if qualified)

Description and credit type: (math or core elective) **H** ►

Advanced Placement Calculus AB builds upon algebraic and geometric principles covered in Pre-Calculus. Applications involve limits, differentiation, and integration tied to topic including related rates, graphical analysis, integral areas, and volumes of revolution. At the conclusion of this course, students will be prepared for and expected to take the Advanced Placement Calculus AB exam for potential college credit. **A TI 83 or TI 84 calculator is required for this course.**

AP CALCULUS BC*

Course 113200 A & B

Grade: 10 - 12

Prerequisite: AP Calculus AB or equivalent

Length of course: 1 year/2 credits

Weighted grade: Yes

Materials fee: AP exam cost of \$105 (financial assistance available if qualified)

Description and credit type: (math or core elective) **H** ►

Advanced Placement Calculus BC builds upon algebraic and geometric principles covered in Pre-Calculus. This course covers all of the topics in Advanced Placement Calculus AB with further investigation into vectors, parametric equations, infinite series, and differential equations. At the conclusion of this course, students will be prepared for and expected to take the Advanced Placement Calculus BC exam for potential college credit. **A TI 83 or TI 84 calculator is required for this course.**

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION SL

Course 110037 A & B

Grades: 11 – 12

Prerequisite: MYP Algebra II

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (math) **H** ►

This course is designed to prepare students for the IB DP Mathematics Applications and Interpretation SL exam. Concepts from MYP Geometry and MYP Algebra II are built upon. This course is designed for students who are interested in harnessing the power of technology when exploring mathematical models and who enjoy the more practical side of mathematics. The course consists of five compulsory topics: Algebra and Numerical Analysis, Functions, Geometry and Trigonometry, Statistics and Probability, and Calculus. The internally assessed component for Mathematics Applications and Interpretation SL (the portfolio) is a substantial piece of research based on different areas of the syllabus and representing three types of tasks (mathematical investigation, problem-solving, and modeling). This course would be appropriate for students interested in the fields of social sciences, natural sciences, statistics, business, economics, psychology, and design. **At the conclusion of this course, students will be prepared for and expected to take the IB assessment for college credit.**

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION HL I

Course 110070 A & B

Grades: 10 – 11

Prerequisite: MYP Algebra II

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (math) **H** ►

This course is year one of a two-year DP math course track, and concepts from MYP Geometry and MYP Algebra II are built upon. This course is designed to prepare students for the IB DP Mathematics Applications and Interpretation HL exam. The course consists of five compulsory topics: Algebra and Numerical Analysis, Functions, Geometry and Trigonometry, Statistics and Probability, and Calculus. This course would be appropriate for students interested in the fields of social sciences, natural sciences, statistics, business, economics, psychology, and design.

IB DP MATHEMATICS APPLICATIONS AND INTERPRETATION HL II**Course 110072 A & B****Grades:** 11 – 12**Prerequisite:** IB DP Mathematics Applications and Interpretation HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (math) **H** ►

This course is designed to prepare students for the IB DP Mathematics Applications and Interpretation HL or SL exam. The course consists of five compulsory topics: Algebra and Numerical Analysis, Functions, Geometry, and Trigonometry, Statistics and Probability. This course also encompasses most of the AP Calculus AB curriculum. The internally assessed component for Mathematics Applications and Interpretation (the portfolio) is a substantial piece of research based on different areas of the syllabus and representing three types of tasks (mathematical investigation, problem-solving, and modeling). In addition to the DP exam, content of this course will also allow for students to take AP Calculus AP exam if they choose to. This course would be appropriate for students interested in the fields of social sciences, natural sciences, statistics, business, economics, psychology, and design. **At the conclusion of this course, students will be prepared for and expected to take the IB assessment for college credit.**

PHYSICAL EDUCATION

Overview of Courses

INTRO TO PE
HEALTH AND WELLNESS

TOTAL FITNESS/WOMEN 1
WOMEN'S WEIGHTS AND FITNESS
WEIGHTS AND FITNESS 1 & 2
SPORTS TRAINING 1-5
CO-ED CROSS TRAINING
ATHLETIC TRAINING

BASKETBALL: SHOOTING STARS
POWER VOLLEYBALL
RACQUET SPORTS 1
LIFELONG TEAM SPORTS 1
LIFELONG RECREATION SPORTS

ROCKY MOUNTAIN HIGH 1 & 2

LIFEGUARD
WATER SAFETY INSTRUCTOR
AQUATIC SPORTS & CONDITIONING
AQUATIC SPORTS 2

PEER PARTNER PE

INTRO TO PE

Course 080000

Grades: 9

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (physical education)

This is a recommended freshman class in which the student will assess personal fitness status in terms of cardiovascular endurance, muscular strength and endurance, and flexibility. Students will be introduced to various team and aquatic (where facilities are available) activities on the introductory level.

HEALTH AND WELLNESS

Course 081000

Grades: 9

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (health)

Health and Wellness is a graduation requirement for Academy District Twenty and is to be taken during the freshmen year. Students will be introduced to the social, physical, mental, and emotional aspects of healthy lifestyles. MYP Health encourages a respect for the body and mind, which in turn enables the individual to make informed, responsible choices and be aware of potential hazards. The Areas of Interaction (AI) are at the core of the curriculum and provide a means of broadening student experience. This course includes human sexuality.

TOTAL FITNESS/WOMEN 1

Course 083210

Grades: 10 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Description and credit type: (physical education or unrestricted elective)

This class will incorporate various types of fitness activities aimed at improving cardiovascular fitness, flexibility, and strength. Activities may include floor aerobics, kickboxing, Tae-Bo, running, hiking, walking, interval training, resistance strength training, Pilates, yoga, slide training, fit ball, and biking. **Students may be required to participate in a pool component of this course.**

WOMEN'S WEIGHTS AND FITNESS

Course 083225

Grades: 10 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Materials fee: \$5

Description and credit type: (physical education or unrestricted elective)

This class will focus on activities to enhance physical fitness: strength, speed, and endurance. Students will gain an appreciation of exercise for life-long fitness. Strength training, utilizing a weights program combined with supplemental lifts and exercises, is the basis of the class. Running, plyometrics, agility, flexibility work, and speed development activities are utilized in the class. Knowledge of muscle groups and specific exercises to enhance muscular development are included. **Students may be required to participate in a pool component of this course.**

WEIGHTS AND FITNESS 1

Course 083215

Grades: 10 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Materials fee: \$5

Description and credit type: (physical education or unrestricted elective)

This class will focus on activities to enhance physical fitness: strength, speed, and endurance. Students will gain an appreciation of exercise for life-long fitness. Strength training, utilizing a weight program combined with supplemental lifts and exercises, is the basis of the class. Running, plyometrics, agility, flexibility work, and speed development activities are utilized in the class. Knowledge of muscle groups and specific exercises to enhance muscular development are included.

WEIGHTS AND FITNESS 2

Course 083220

Grades: 10 – 12

Prerequisite: None

Length of course: 1 semester/1 credit

Materials fee: \$5

Description and credit type: (physical education or unrestricted elective)

This class continues to build on the foundation established in Weights and Fitness 1. Strength training, utilizing an advanced weights program combined with supplemental lifts and exercises is the basis of the class. Running, plyometrics, agility and flexibility work, and speed development activities will continue to be utilized.

SPORTS TRAINING 1**Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$5**Description and credit type:** (physical education or unrestricted elective)

This course will focus on developing the basic physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries, and gaining an appreciation for lifelong fitness. The course will emphasize improving total body strength and power, speed, agility, flexibility through basic free weights exercises, calisthenics, plyometrics, and teaching proper running mechanics.

SPORTS TRAINING 2

Course 083270

Grades: 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$5**Description and credit type:** (physical education or unrestricted elective)

This course will focus on further developing the physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries, and gaining an understanding to impact lifelong fitness. The course will emphasize improving total body strength and power, speed, agility, flexibility through application of advanced training principles and training methodologies in progression of complexity from those in Sports Training 1.

SPORTS TRAINING 3

Course 083275

Grades: 10 – 12**Prerequisite:** Sports Training 2**Length of course:** 1 semester/1 credit**Materials fee:** \$5**Description and credit type:** (physical education or unrestricted elective)

This course will focus on further developing the physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries. Building in complexity from Sports Training 2, the course will emphasize improving total body strength and power, speed, agility, flexibility through application and evaluation of advanced training methodologies and current trends in the field of fitness science.

SPORTS TRAINING 4

Course 083280

Grades: 10 – 12**Prerequisite:** Sports Training 3**Length of course:** 1 semester/1 credit**Materials fee:** \$5**Description and credit type:** (physical education or unrestricted elective)

This course will focus on further developing the physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries. Building in complexity from Sports Training 3, the course will emphasize improving total body strength and power, speed, agility, flexibility through application and evaluation of advanced training methodologies and current trends in the field of fitness science.

SPORTS TRAINING 5

Course 083285

Grades: 10 – 12**Prerequisite:** Sports Training 4**Length of course:** 1 semester/1 credit**Materials fee:** \$5**Description and credit type:** (physical education or unrestricted elective)

This course will focus on further developing the physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries. Building in complexity from Sports Training 4, the course will emphasize improving total body strength and power, speed, agility, flexibility through application and evaluation of advanced training methodologies and current trends in the field of fitness science.

CO-ED CROSS TRAINING**Course 083000****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

This course is specifically designed to provide all students with a personal fitness plan. Students will monitor their individual aerobic and anaerobic fitness progress. Students will be introduced to a variety of activities such as water aerobics, weight training, plyometrics, flexibility, jogging and much more. “Be fit, never quit” is a major lifetime goal for all in this class. Nutrition and proper eating habits will be detailed.

Students may be required to participate in a pool component of this course.

ATHLETIC TRAINING**Course 083400****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

This course allows an opportunity for students who have an interest in the field of sports medicine to learn basic techniques in Athletic Training. The course consists of training room management, wrapping and taping techniques, emergency care, rehabilitation, injury prevention, treatment of injuries, nutrition, and conditioning. Students have an opportunity to work with athletic teams.

BASKETBALL: SHOOTING STARS**Course 083405****Grades:** Grades 10 – 12**Prerequisite:** None**Length of course:** 1 semester**Description and credit type:** (physical education or unrestricted elective)

This course is designed for the sincere hoopster. Individual fundamental skills, screening techniques, and various offensive and defensive systems are taught under intensive conditions. Students must want to learn, work hard, and improve their game.

POWER VOLLEYBALL**Course 083410****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

This course is designed for the student with strong basic volleyball skills. The course concentrates on competitive skills, techniques, and strategies. The course will include indoor and outdoor play with various offensive and defensive systems.

RACQUET SPORTS 1**Course 083525****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

The student will demonstrate fundamentals of tennis, badminton, table tennis, racquet ball and pickle ball. These activities will enhance eye/hand coordination, agility, quickness, flexibility, and mental strategies. Conditioning and fitness will be included through various game and aerobic activities.

LIFELONG TEAM SPORTS 1**Course 083800****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

The learner will demonstrate the fundamentals and basic skills in many of the following recreational activities: basketball, flag football, floor hockey, soccer, softball, team handball and volleyball. The learner will participate cooperatively and ethically when in competitive physical activities. Conditioning and fitness through various activities will be required. **Students may be required to participate in a pool component of this course.**

LIFELONG RECREATION SPORTS**Course 084000****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

This class places an emphasis on lifelong activities that may include activities such as golf, archery, bowling, cycling, tennis, aerobics, roller skating, badminton, aquatic activities, board games, juggling, weights, and other special recreational activities. Conditioning and fitness will be included through various aerobic activities. **Students may be required to participate in a pool component of this course.**

ROCKY MOUNTAIN HIGH 1**Grades:** 11 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (physical education or unrestricted elective)

This class offers different activities that are geared to enhance the student's self-confidence, social awareness, problem solving, and leadership potential. The activities may include team-building initiatives, low and high ropes course elements, climbing, rappelling, belaying, and orienteering. Students may be required to keep a journal for the class. **Students may be required to participate in a pool component of this course.**

ROCKY MOUNTAIN HIGH 2

Course 083605

Grades: 11 – 12**Prerequisite:** Rocky Mountain High 1 and instructor approval**Length of course:** 1 semester/1 credit**Materials fee:** \$35**Description and credit type:** (physical education or unrestricted elective)

This is an advanced class which may cover group initiatives, advanced ropes course elements, intermediate and advanced climbing techniques, rappelling, orienteering, kayaking, snowshoeing, camping, backpacking, outdoor survival, leadership, and wilderness first aid. Students need to be highly motivated toward outdoor adventure activities and are strongly encouraged to attend each of the culminating field trips.

LIFEGUARD

Course 082800

Grades: 10 – 12, 15 years or older**Prerequisite:** None**Length of course:** 1 semester/1 credit**Materials fee:** \$65**Description and credit type:** (physical education or unrestricted elective)

Students must be at least 15 years old. There will be an entry-level swimming test. There will be a Red Cross fee for books that students will retain. Upon successful completion of the course, students will receive Red Cross certification in Lifeguard Training and CPR for the professional rescuer.

W.S.I. (Water Safety Instructor)

Course 082805

Grades: 16 years and older**Prerequisite:** None**Length of course:** 1 Semester**Materials fee:** \$55**Description and credit type:** (physical education or unrestricted elective)

There will be a Red Cross fee for books that students will retain. Red Cross W.S.I. and F.I.T. will be awarded upon successful completion of required skills and examinations. Students in this class will assist in teaching the beginning swimming students.

AQUATIC SPORTS AND CONDITIONING

Course 083100

Grades: 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

This class will include swimming instruction, aquatic sports, aquatic games, conditioning in and out of the pool, and aerobics.

AQUATIC SPORTS 2

Course 083102

Grades: 10 – 12**Prerequisite:** Aquatic Sports and Conditioning**Length of course:** 1 semester/1 credit**Description and credit type:** (physical education or unrestricted elective)

This course will include advanced swimming strokes and skills, aquatic sports, advanced aquatic games, and conditioning in and out of the pool.

PEER PE

Grades: 10 – 12

Prerequisite: 1 semester of PE and instructor approval-for Peer Partners only.

Length of course: 1 Semester

Materials fee: Field Trip Fee TBA

Description and credit type: (physical education or unrestricted elective)

This course is designed for those students requiring individualized instruction in Physical Education. Students in this course will participate in activities that incorporate team and individual sport skills, strategies in teamwork and problem solving, and provide training in skills needed for leisure activities. In addition, students will be provided the opportunity to improve and maintain physical fitness as well as develop an appreciation for lifelong physical fitness. Peer Partners will fully participate in all activities with their peer student.

SCIENCE

Overview of Courses

BIOLOGY

MYP CHEMISTRY

ANATOMY & PHYSIOLOGY

AP BIOLOGY

ENVIRONMENTAL SCIENCE

AP ENVIRONMENTAL SCIENCE

IB BIOLOGY HL I

IB BIOLOGY HL II

DP ENVIRONMENTAL SYSTEMS AND SOCIETIES SL

AP CHEMISTRY

IB CHEMISTRY HL I

IB CHEMISTRY HL II

PHYSICS

AP PHYSICS 1

IB PHYSICS HL I

IB PHYSICS HL II

AP PHYSICS C

ASTRONOMY

PRACTICAL SCIENCE & ENGINEERING I-IV

SCIENCE MEDLEY

EARTH SCIENCE

FORENSIC SCIENCE 1 & 2

BIOLOGY**Grades:** 9**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science) **H** ▶

Biology provides crucial background in the life sciences arena. Topics covered include basic cell structure, function, and processes; genetics; microbiology; evolutionary concepts and trends; taxonomy of plants and animals (including dissection); basic vertebrate and invertebrate biology; basic ecology; and human biology. This course focuses on the world around us through a lab component.

MYP CHEMISTRY

Course 133135 A & B

Grades: 10**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science) **H** ▶

This course will be an overview of chemistry with a concentration on formulas, equations, types of reactions, simple stoichiometry, atomic theory, and periodic table. This course will use the MYP philosophy and incorporate laboratory investigations to prepare students for success in the DYP science sequence.

ANATOMY AND PHYSIOLOGY

Course 132000 A & B

Grades: 10 – 12**Prerequisite:** MYP Biology with a “C” or better, instructor approval, or counselor’s approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Materials fee:** \$15**Description and credit type:** (science or core elective) **H** ▶

Anatomy and Physiology students study the major systems of the human body. Topics covered include the basic anatomical make-up of the body’s organs, as well as how these organs function. There is a significant laboratory component to this course, including microscopic work, and dissection. Lectures, videos, and research will be used.

AP BIOLOGY*

Course 132025 A & B

Grades: 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20, AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (science or core elective) **H** ▶

AP Biology meets the objectives of a college level general biology course. Topics covered include molecular biology, genetics, evolution, animals, and plants. Tests are the major form of evaluation. This course has a lab component. At the conclusion of this course students will be prepared for and expected to take the Advanced Placement exam for potential college credit.

ENVIRONMENTAL SCIENCE

Course 132405 A & B

Grades: 10 – 12**Prerequisite:** MYP Biology and instructor approval, or counselor’s approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science or core elective) **H** ▶

Environmental Science explores the natural world from an ecological and human point of view. Topics covered include types of ecosystems, non-living and living components of ecosystems (including plants, animals, bacteria, fungi, and single-celled organisms), interactions between the non-living and living components, population studies, and animal behavior. In addition, this course also examines discussions on environmental law, economics, ethics, and how humans are impacting the natural world. Lab investigations, field studies, and research projects are undertaken to examine each topic. **Topics covered include the living world, energy, population studies, land and water uses, and pollution. Local ecology will be a primary emphasis, as we study their interactions and connections. Field trips may be a possibility.**

AP ENVIRONMENTAL SCIENCE***Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20, AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (science or core elective) **H** ►

AP Environmental Science meets the objectives of a college level introductory course. Topics covered include interdependence of earth's systems (energy, matter, soils, air, water, and organisms) human population dynamics (human fertility issues are covered), renewable and nonrenewable resources, pollution, global changes (acid rain, greenhouse effect, ozone layer depletion), and environment and society choices for the future (conservation, preservation, remediation, and sustainability). This course has a lab component. **All students are expected to take the AP exam for the purpose of earning college credit.**

IB BIOLOGY HL I*

Course 132901 A & B

Grades: 11**Prerequisite:** MYP Biology**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ►

This is the first year of a two year Biology HL curriculum. The course will enable students to apply and use a body of knowledge, methods and techniques that characterize science and technology. The course will cover the following topics: ecology, evolution theory, biology investigation methods, cells, cell metabolism, biochemistry, genetics, biotechnology, human physiology, neurobiology, and animal behavior. This class will also help develop experimental and investigative laboratory techniques in biology that will allow them to successfully complete the Interdisciplinary Science Group 4 Research Project (interaction between physics, chemistry and biology students to solve a local problem), and to present topics for the extended essay.

IB BIOLOGY HL II*

Course 132902 A & B

Grades: 12**Prerequisite:** IB Biology HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ►

This is the second year of a two-year curriculum in which students are prepared to take exams at the higher level (HL). The course will enable students to apply and use a body of knowledge, methods and techniques that characterize science and technology. The course will build on the topics covered in IB Biology HL I, including, but not to: ecology, botany, advanced human physiology, and advanced genetics. This class will continue to develop experimental and investigative laboratory techniques as well as provide opportunities for scientific study and creativity within a global context. Students who complete this course will be prepared to take the Biology HL exam in May. **At the conclusion of this course, students will be prepared for and expected to take the IB assessment for college credit.**

DP ENVIRONMENTAL SYSTEMS AND SOCIETIES SL

Course 132415 A & B

Grades: 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (science) **H** ►

Diploma Programme Environmental Systems and Societies is designed to combine the techniques and knowledge associated with the DP programme experimental sciences with the social sciences. Students will gain perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students' attention can be constantly drawn to their own relationship with their environment and the significance of choices and decisions that they make in their own lives. Students will develop a sound understanding of the interrelationships between environmental systems and societies, rather than a purely journalistic appreciation of environmental issues. Students will be evaluating scientific, ethical, and socio-political aspects of issues. This course has a lab component. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

AP CHEMISTRY***Grades:** 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20, AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (science or core elective) **H** ▶

AP Chemistry is a problem-solving and lab-oriented class that meets the objectives of a college level general chemistry course. This course expands and amplifies concepts learned in high school chemistry and covers additional advanced topics and topics relevant to our technological society. Topics covered include structure of matter, states of matter, reactions, descriptive chemistry, and laboratory exploration. At the conclusion of this course students will be prepared for and expected to take the Advanced Placement exam for potential college credit. **AP Chemistry is a rigorous course that moves at a college level pace. Students are expected to spend at least an additional 4 – 5 hours per week outside of regular class time on reading and assignments. It is imperative that students are self-motivated and independent learners in order to be successful. It is strongly recommended that students complete a minimum of 1 year of chemistry prior to taking AP Chemistry. There is a summer assignment for this course.**

IB CHEMISTRY HL I*

Course 133146 A & B

Grades: 11**Prerequisite:** MYP Chemistry**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ▶

This is the first year of a two-year chemistry Higher Level curriculum. Chemistry is referred to as “the central science”, as chemical principles underpin both the physical environment in which we live and all biological systems. The Diploma Programme chemistry course includes the essential principles of the subject (such as quantitative chemistry, bonding, acids/bases and organic chemistry) but also includes options (such as human biochemistry, environmental chemistry, medicines and drugs) in order to meet the needs of students. In addition to the externally assessed IB exams, students complete two internally assessed requirements: 1) the practical scheme of work (PSOW)—investigations (such as laboratory work or practical’s, and projects); and 2) the Group IV Project—a collaborative, interdisciplinary project in which students from the different group 4 subjects analyze a common topic or problem.

IB CHEMISTRY HL II*

Course 133113 A & B

Grades: 12**Prerequisite:** IB Chemistry HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ▶

This is the second year of the two-year IB Chemistry curriculum in which students will be prepared to take exams at the higher level (HL). The Diploma Programme chemistry course includes the essential principles of the subject (such as quantitative chemistry, bonding, acids/bases and organic chemistry) but also includes options (such as human biochemistry, environmental chemistry, medicines and drugs) in order to meet the needs of students. In addition to the externally assessed IB exams, students complete two internally assessed requirements: 1) the practical scheme of work (PSOW)—investigations (such as laboratory work or practicals, and projects); and 2) the Group IV Project—a collaborative, interdisciplinary project in which students from the different group 4 subjects analyze a common topic or problem. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

PHYSICS

Course 133200 A & B

Grades: 10 – 12**Prerequisite:** MYP Biology**Co-requisite:** Algebra 2, prior or concurrent**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science or core elective) **H** ▶

Physics is a lab-based course that explores the science of matter and energy and the interactions between the two. Topics include kinematics, Newton’s 3 laws of motion, momentum, energy, the principles of waves, light, magnetism, electricity, optics, and celestial mechanics. The ability to use mathematics to solve experimental problems is emphasized.

AP PHYSICS 1***Grades:** 11 – 12**Prerequisite:** None**Co-requisite:** Algebra 2, prior or concurrent**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20, AP exam(s) cost of \$105 (financial assistance available if qualified)**Description and credit type:** (science or core elective) **H** ►

This algebra-based course is equivalent to a first-semester college course in algebra-based physics. This course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. This course has a lab component. **The College Board requires a minimum of 25% of class time be dedicated to applying lab skills. These will include the use of computer-based data collection, advanced graphing skills, and effective communication of results via written-communication. Students should have a strong foundational knowledge of Algebra II, basic lab skills, and problem-solving techniques. Heavy emphasis on quantitative calculations, problem solving, and the application of multiple concepts is required throughout the course. Students are expected to take the AP Physics 1 exam.**

IB PHYSICS HL I

Course 133220 A & B

Grades: 11**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ►

This is the first year of a two year IB Physics HL course. Six broad areas make up the core for Higher Level Physics: all facets of classical mechanics, thermodynamics, wave theory, nuclear physics, electromagnetic theory (including elementary circuit analysis), energy and power, and the science behind the greenhouse effect and our climate are covered. Other topics discussed and investigated include the history of physics, proper scientific measurement, experimental uncertainty, and geometric optics. All areas will include relevant laboratory investigations for each topic, and all students will be expected to keep a cumulative lab notebook. Furthermore, all IB Physics students will be expected to be involved with the Group 4 Interdisciplinary Science Project. Some labs may be held during non-school hours.

IB PHYSICS HL II

Course 133225 A & B

Grades: 12**Prerequisite:** IB Physics HL I**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20**Description and credit type:** (science) **H** ►

This is the second year of the Higher Level Physics course. It covers the same topics as in the first year of physics and goes much deeper into all of the core areas. In the second year of the course students will expand upon their introductory treatment of the core content including mechanics, thermal physics, waves, nuclear physics, climate studies, electromagnetic theory, and circuitry. In addition, students will study the required Options of the course. The options may include site and wave phenomena, quantum and nuclear physics, digital technology, relativity and particle physics, astrophysics, radio communication or electromagnetic waves. Furthermore, all IB Physics students will be expected to be involved with the Group 4 Interdisciplinary Science Project. Some labs may be held during non-school hours. Approximately 240 instructional hours are planned for IB Physics HL I & II. **At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

AP PHYSICS C*

Course 133212 A & B

Grades: 11 – 12**Prerequisite:** None**Co-requisite:** Calculus, concurrent enrollment**Length of Course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** \$20, AP exam(s) cost of \$200 – 2 exams offered (financial assistance available if qualified)**Description and credit type:** (science or core elective) **H** ►

AP Physics C meets the objectives of a college level general physics course. Topics covered include mechanics (kinematics, dynamics, statics, rotational mechanics, and the conservation laws) and electromagnetic theory (electrostatics, circuits, and magnetism). All necessary calculus techniques are introduced, however, enrollment in calculus is required as a pre-requisite or co-requisite. This course has a lab component. **At the conclusion of this course students will be prepared to take the Advanced Placement exam for potential college credit. Some labs may need to be completed outside of the regular classroom.**

ASTRONOMY 1**Grades:** 10 – 12**Prerequisite:** 2 credits of Science**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science or core elective) **H** ▶

Astronomy 1 students study the matter of outer space. Topics include the history of the solar system, the forces of motion, physics of light, measurement of astronomical distances, planetary geology, and stellar life. Students learn to identify constellations by their patterns and the mythology that accompanies them. This course teaches chemical and physical processes using the cosmos for their application. Concepts are explored through hands-on lap experiences.

PRACTICAL SCIENCE AND ENGINEERING 1**Course 133900****Grades:** 11 – 12**Prerequisite:** 4 science credits with a grade of “B” or better, concurrent enrollment if 11th grade**Length of course:** 1 semester/1 credit**Weighted grade:** No**Materials fee:** \$25**Description and credit type:** (science or core elective) **H** ▶

This course is designed for 11th/12th grade students interested in applying concepts that they have studied in their previous science course work toward practical engineering applications. Course is hands-on with the emphasis on student projects. Topics to be covered include, but are not limited to: engines and rockets, structural engineering, energy and fuels, and optical instrumentation. This course has a lab component.

PRACTICAL SCIENCE AND ENGINEERING 2**Course 133901****Grades:** 11 – 12**Prerequisite:** 4 science credits with a grade of “B” or better**Length of course:** 1 semester/1 credit**Weighted grade:** No**Materials fee:** \$25**Description and credit type:** (science or core elective) **H** ▶

This course is designed for 11th and 12th grade students interested in applying concepts that they have studied in their previous science course work toward practical engineering applications. Course is hands-on with the emphasis on student projects. Topics to be covered include, but are not limited to forensic science, atmospheric science and climate change, solutions chemistry and fluid dynamics, and batteries and fuel cells.

PRACTICAL SCIENCE AND ENGINEERING 3**Course 133904****Grades:** 11 – 12**Prerequisite:** 4 science credits with a grade of “B” or better**Length of course:** 1 semester/1 credit**Weighted grade:** No**Materials fee:** \$25**Description and credit type:** (science or core elective) **H** ▶

Students apply concepts that they have studied in their practical science and engineering course work toward more advanced engineering applications. **This course is designed for 11th/12th grade students interested in applying concepts that they have studied in their previous science course work toward practical engineering applications. Course is hands-on with the emphasis on student projects. Topics to be covered include, but are not limited to forensic science, energy and fuels, engines, and rockets.**

PRACTICAL SCIENCE AND ENGINEERING 4**Course 133905****Grades:** 11 – 12**Prerequisite:** 4 science credits with a grade of “B” or better**Length of course:** 1 semester/1 credit**Weighted grade:** No**Materials fee:** \$25**Description and credit type:** (science or core elective) **H** ▶

Students apply concepts that they have studied in their practical science and engineering course work toward more advanced engineering applications. **This course is designed for 11th/12th grade students interested in applying concepts that they have studied in their previous science course work toward practical engineering applications. Course is hands-on with the emphasis on student projects. Topics to be covered include, but are not limited to structural engineering, atmospheric science and climate change, optical instrumentation, solutions chemistry and fluid dynamics, and batteries and fuel cells.**

SCIENCE MEDLEY**Grades:** 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science or core elective)

Science Medley builds a foundation in science for students currently enrolled in Basic Math Skills or Bridges to Algebra 1. Topics introduce study and lab investigations in earth science, physics, chemistry, and biology. Emphasis is placed on the scientific method, designing, and performing investigations, data collection, and interpretation.

EARTH SCIENCE

Course 134000 A & B

Grades: 10 – 12**Prerequisite:** instructor approval, or counselor's approval**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science or core elective) **H** ►

Earth Science is a lab-centered course covering subjects in geological and astronomical science. In addition, Earth Science explores how science, technology, and human activity can affect the world.

FORENSIC SCIENCE

Course 139000 A & B

Grades: 11 – 12**Prerequisite:** Successful completion of all 9 – 10th grade courses**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science or core elective) **H** ►

Forensic Science is a year-long lab-based science course. The course will focus on crime scene investigations, evaluation of evidence, and presentation of findings in the appropriate settings. Topics covered will include the legal aspects and technology of forensic science; trace evidence; serology; forensic anthropology; DNA analysis; glass, paint, and soil analysis; toxicology; questioned documents and handwriting; ballistics, tool marks, and arson; and forensic science in the media and in popular culture. This course will position students to pursue further studies in biology, chemistry, physics, and related fields.

FORENSIC SCIENCE 2

Course 139002 A & B

Grade: 11 – 12**Prerequisite:** Successful completion of Forensic Science 1**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (science or core elective) **H** ►

Forensic Science 2 is a year-long lab-base science course. A comprehensive course offered as a second-level high school course in forensic science, students will have the opportunity to expand their knowledge of chemistry, biology, physics, human anatomy, and entomology. Topics that will be covered are forensic anthropology and pathology, forensic entomology, glass analysis and soils, dental impressions, firearms, tool marks, arson and explosives, forensic psychology, cybercrimes, and forensics in the media.

INDIVIDUALS & SOCIETIES

Overview of Courses

WORLD REGIONAL GEOGRAPHY

MYP WORLD HISTORY
AP EUROPEAN HISTORY

US HISTORY/GEOGRAPHY
AP US HISTORY
CIVICS AND LAW
IB HISTORY OF THE AMERICAS HL

AP US GOVERNMENT AND POLITICS
AP HUMAN GEOGRAPHY
AP PSYCHOLOGY
IB PSYCHOLOGY SL
IB 20TH CENTURY WORLD HISTORY

SOCIOLOGY
BLACK HISTORY IN AMERICA
21ST CENTURY MODERN ISSUES
INTERNATIONAL RELATIONS
PSYCHOLOGY

WORLD REGIONAL GEOGRAPHY**Grade:** 9**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (social studies) **H** ▶

World Regional Geography develops a view of the world through the study of cultural and physical geography. Emphasis is placed on our natural environment, cultural regions, and geographic aspects of man's contemporary economic, social, and political conditions. Interrelationships of climate, vegetation, soils, landform, and environmental impacts are studied. Map reading, map interpretation, and the skills necessary to accomplish these tasks are studied.

MYP WORLD HISTORY

Course 1559003 A & B

Grades: 10**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (social studies or core elective) **H** ▶

The course addresses the fundamental concepts of 'time,' 'cause and consequence,' 'continuity and change,' and 'similarity and difference,' developed and facilitated through a thematic and chronological approach. History is an account of the past, and a study of how and why past events occurred. MYP students will learn to interpret these events, analyze the consequences, synthesize the effects and investigate historical evidence.

AP EUROPEAN HISTORY*

Course 155000 A & B

Grades: 10 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (social studies or core elective) **H** ▶

AP European History meets the objectives of a college level course in European history. European history from 1400 to 1989 is covered. Students should expect considerable amounts of outside reading combined with the development of interpretive skills and analytic oral discussion. Students will develop and understand the themes in European history and will be able to analyze historical evidence (both primary documents and secondary works). Through analytical writing, students will demonstrate course understanding. All students are expected to take the AP exam for the purpose of earning college credit.

US HISTORY/GEOGRAPHY

Course 155505 A & B

Grade: 11 - 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (social studies) **H** ▶

US History/Geography is a survey course of US History from the pre-colonial period to the present. The course is designed to develop an understanding of the birth and growth of the US to include people of varied backgrounds. Emphasis is placed on the cause and effect of relationships found throughout our nation's history and geographical development as well as relationships between history and politics/economics.

AP US HISTORY*

Course 155525 A & B

Grades: 11 – 12**Prerequisite:** MYP World History or AP European History**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (social studies or core elective) **H** ▶

AP US History meets the objectives of a college level US History course and meets the US History graduation requirement. This course covers the colonial period through the twentieth century incorporating critical essay writing and the interpretation of primary historical evidence. Supplemental reading of documents, essays, and books are used. All students are expected to take the AP exam for the purpose of earning college credit.

CIVICS AND LAW**Grade:** 11 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Weighted grade:** No**Description and credit type:** (social studies) **H** ►

Civics and Law provides a basic understanding of the design and operation of federal, state, and local governments. Relationships between the citizen and the government are explored, and the student develops an understanding of the significant role of the citizen in American democracy. The students become familiar with the American legal system and their rights and responsibilities as citizens. **This course meets the one semester graduation requirement in Civics.**

IB HISTORY OF THE AMERICAS HL*

Course 155101 A & B

Grade: 11**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (social studies) **H** ►

This course covers major developments in the region from around 1760 to 2000: independence movements; the challenges of nation-building; the emergence of the Americas in global affairs; the Great Depression; the Second World War and the Cold War, and their impact on the region, as well as the transition into the 21st century. Within each section political, economic, and social issues are considered and, when relevant, cultural aspects are included. The countries of the Americas form a region of great diversity but close historical links. Special emphasis will be placed on research and writing skills, and particularly the Internal Assessment. **This course fulfills the US History requirement for D20 graduation.**

AP US GOVERNMENT AND POLITICS*

Course 157116 A & B

Grades: 10 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (social studies or core elective) **H** ►

This Advanced Placement course provides students with an analytical perspective on government and politics in the United States. Along the way, students will learn how to gather data about political behavior and develop their own theoretical analysis of American politics. This course includes both the general concepts used to interpret US politics and the analysis of specific examples. Students also explore the various institutions, groups, beliefs, and ideas that constitute U.S. politics. The equivalent of an introductory college-level political science course, AP US Government and Politics prepares students for the AP Exam and for further study in political science, law, education, business, and history. This course also meets graduation requirements for Civics. **All students are expected to take the AP exam for the purpose of earning college credit.**

AP HUMAN GEOGRAPHY*

Course 154200 A & B

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fees:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (social studies or core elective) **H** ►

The AP Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. **All students are expected to take the AP exam for the purpose of earning college credit.**

AP PSYCHOLOGY**Course 158010 A & B****Grade:** 10 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (social studies or core elective) **H** ▶

AP Psychology meets the objectives of a college level course in psychology. In this introductory course into the study of human and animal behavior and mental processes, students are introduced to psychological facts, and principles and phenomena associated with the different areas of psychology. Topics covered include the biology of behavior, sensation and perception, motivation and emotion, states of consciousness, development, abnormal behavior, therapy approaches, personality, and social psychology. All students are expected to take the AP exam for the purpose of earning college credit.

IB PSYCHOLOGY SL***Course 158011 A & B****Grades:** 11 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (social studies) **H** ▶

IB Psychology is designed to fulfill the requirements for the Standard Level (SL)/Sixth Subject of the IB Program in Psychology. Students will complete the compulsory study of three psychological perspectives: biological, cognitive, and learning. In addition, students will study one of the following option areas: dysfunctional, social, or psychodynamic psychology. Subtopics include nervous system functions, sensation and perception, learning and memory, language, stress, and intelligence. For their internal assessment, students will undertake a partial replication of and report on one simple experiment of their choice.

IB 20TH CENTURY WORLD HISTORY***Course 155915 A & B****Grade:** 12**Prerequisite:** MYP World History and IB History of the Americas; SL students will have taken US History or AP US History**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (social studies) **H** ▶

This course is offered for IB Diploma candidates taking the standard level and higher level exams for group three. Candidates will take examinations on the following: (1) Prescribed Subject on “Peacemaking, peacekeeping- international relations 1918-36” or “Communism in Crisis 1976-89” (2) 20th Century History Topics on “Causes, practices and effects of war,” “Origins and development of authoritarian and single-party states,” and “Democratic states – challenges and responses”. HL candidates will also take the regional. All candidates will be required to complete an Internal Assessment (a.k.a. Historical Investigation) of 1500-2000 words.

SOCIOLOGY**Course 151000****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Weighted grade:** No**Description and credit type:** (social studies or core elective) **H** ▶

Sociology studies the basic components of society. Topics covered include culture, conformity and adaptation, family, cultural diversity, social movements, racial and ethnic relations and deviance and social control. Small and large group discussions are emphasized as are reading comprehension and writing skills.

BLACK HISTORY IN AMERICA**Course 155560****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Weighted grade:** No**Description and credit type:** (social studies or core elective) **H** ►

Students will learn about Black History in America from slavery to modern times by exploring such topics as the origins of the slave plantation system and its evolution in the American South, the effects of the Civil War and Reconstruction in the years leading up to and throughout the Civil Rights movement, and the historical evolution of civil rights law through present day America. Students will apply this learning to examining America's black cultural heritage and contemporary issues in today's society.

21st CENTURY MODERN ISSUES**Course 157300****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Weighted grade:** No**Description and credit type:** (social studies or core elective) **H** ►

Students will learn about influential people, events, concerns, and movements of the 21st Century. Students will explore the causes and effects of military conflicts, societal and cultural movements, international human rights concerns, and changes in technology and industry.

INTERNATIONAL RELATIONS**Course 157310****Grades:** 10 – 12**Prerequisite:** None**Weighted grade:** No**Length of Course:** 1 semester/1 credit**Description and credit type:** (social studies) **H** ►

In the International Relations class, students develop an understanding of current international politics and develop a basis for analyzing and evaluating decisions that affect the world states. Global interdependency is stressed in political, economic, and social relationships.

PSYCHOLOGY**Course 158000****Grades:** 10 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Weighted grade:** No**Description and credit type:** (social studies or core elective) **H** ►

Psychology studies the basic psychological theories and how they are applied. Possible topics of this survey course include neurobiology, sensation and perception, development, learning, memory, disorders and treatment, and social psychology. Discussion is an integral part of this class and students are expected to share ideas and be respectful of others' beliefs and opinions.

WORLD LANGUAGE

Overview of Courses

MYP FRENCH I, II, III
FRENCH 4
AP FRENCH LANGUAGE
IB DP FRENCH I & II

MYP SPANISH I, II, III
SPANISH 4
LA CULTURA HISPANA
AP SPANISH LANGUAGE
AP SPANISH LANGUAGE 2
IB DP SPANISH I & II

MYP CHINESE I, II, III (MANDARIN)
CHINESE 4 (MANDARIN)
AP CHINESE LANGUAGE AND CULTURE 1-2
IB DP CHINESE I & II (MANDARIN)

AMERICAN SIGN LANGUAGE 1, 2, 3

MYP FRENCH I**Course 062012 A & B****Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language) **H** ▶

This course introduces and develops the language skills of listening, speaking, reading, and writing through a basic text and a variety of supplemental reading and enrichment activities. Students will learn to communicate in French and will be introduced to the life and culture of the French world. Class is conducted in the target language as much as possible according to the level of study. Students in this course will complete the first third of French 1. Additionally, teachers use the IB/MYP aims and objectives along with the learner profile, which help develop inquiring, knowledgeable and caring young people. Global contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet and help to make connections between the disciplines.

MYP FRENCH II**Course 062014 A & B****Grades:** 9 – 12**Prerequisite:** MYP French I**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ▶

This class is an accelerated second-year French course building on skills developed in French I. Students continue to develop their listening, speaking, reading, and writing skills. Grammatical structure and vocabulary important for developing communicative competency will be continually reinforced by means of various drills and activities. The culture of French speaking countries continues to be explored.

MYP FRENCH III**Course 062016 A & B****Grades:** 9 – 12**Prerequisite:** MYP French II**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ▶

MYP French III is designed for highly-motivated students to build upon the four basic skills acquired in French I and II. Students are expected to understand standard speech on familiar topics and should be able to respond. This course will enlarge and refine the students' vocabulary and improve their ability to understand and respond to the spoken and written language. The students continue to explore different French cultures and work intensively on oral expression to improve their fluency.

FRENCH 4**Course 062004 A & B****Grades:** 9 – 12**Prerequisite:** MYP French III**Length of course:** 1 year/2 credits**Weighted:** No**Description and credit type:** (world language or core elective) **H** ▶

In this course students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this course.

AP FRENCH LANGUAGE***Course 062010 A & B****Grades:** 11 – 12**Prerequisite:** MYP French III**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (world language or core elective) **H** ▶

In this class, student communication, both written and oral, will be increasingly spontaneous, culturally appropriate, and developed at a higher level. Students will inquire, analyze, synthesize, and evaluate information from a variety of sources. **All students are expected to take the AP exam for the purpose of earning college credit.**

IB DP FRENCH I***Grades:** 11**Prerequisite:** MYP French III, and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **The first year of the diploma-level program is designed to expand accuracy in grammatical structures, to increase fluency in oral and written work, and to develop reading comprehension skills in order to study and to analyze non-technical and literary pieces (i.e., essays, poetry, short stories) as well as print, audio, and audiovisual texts on a variety of life topics. The textbook is used to cover an overview of French history and literature. Students continue to gain insight into the way of life of Francophones and should expect to speak only in that target language. At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

IB DP FRENCH II*

Course 062019 A & B

Grades: 12**Prerequisite:** IB DP French I and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **Students in IB DP French II are at the high end of the language spectrum. The course is designed for students with an already high level of competence and interest in the French language and it continues to emphasize the four primary language skills: listening, speaking, reading, and writing. The main focus of the course is on the reinforcement and refinement of language skills and there will be increased attention on French literature and handling literary texts, as well as print, audio, and audiovisual texts on a variety of current events and life topics. Students will be given the opportunity to explore the culture of the language, and to make connections between other languages and cultures with which they are familiar. Students will be able to use French for the purposes and in situations involving sophisticated discussion, argument, and debate. At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit.**

MYP SPANISH I

Course 062086 A & B

Grades: 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language) **H** ►

This course introduces and develops the language skills of listening, speaking, reading, and writing through a basic text and a variety of supplemental reading and enrichment activities. Students will learn to communicate in Spanish and will be introduced to the life and culture of the Spanish world. Class is conducted in the target language as much as possible according to the level of study. Students in this course will complete the first third of Spanish 1. Additionally, teachers use the IB/MYP aims and objectives along with the learner profile, which help develop inquiring, knowledgeable and caring young people. Global contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet and help to make connections between the disciplines.

MYP SPANISH II

Course 062087 A & B

Grades: 9 – 12**Prerequisite:** MYP Spanish I**Length of course:** 1 year/2 credits**Description and credit type:** (world language or core elective) **H** ►

This course is an accelerated second-year Spanish program which builds on skills developed in MYP Spanish I. Students continue to develop their listening, speaking, reading, and writing skills. Grammatical structure and vocabulary needed for developing communicative competency will be continually reinforced by means of various drills and activities. The culture, history, and geography of Spanish-speaking countries continue to be explored.

MYP SPANISH III**Grade:** 9 – 12**Prerequisite:** MYP Spanish II**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

MYP Spanish is designed for highly-motivated students; it builds upon the four basic skills acquired in Spanish I and MYP Spanish II. Students are expected to understand and respond to standard speech on familiar topics. This course will enlarge and refine the students' vocabulary; students will improve their ability to understand and respond to the spoken and written language. The students continue exploring different Spanish-speaking cultures and work intensively on oral expression to improve their fluency. A novelette and a standard grammar text are used. Spanish and Latin American art, literature and music, the indigenous cultures of Mexico and Mesoamerica, and the themes found in Don Quixote are among the topics explored.

SPANISH 4

Course 062077 A & B

Grades: 9 – 12**Prerequisite:** MYP Spanish III**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

In this class students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this class. **This course is designed for highly-motivated students; it builds upon reading, writing, listening, speaking and cultural competency skills. Students should expect language immersion inside the classroom and should expect to attempt to understand and respond to standard speech on familiar topics. This course will enlarge and refine the students' vocabulary; students will improve their ability to understand and respond to the spoken and written language. The students continue exploring different Spanish-speaking cultures and work intensively on oral expression to improve their fluency. Novelettes, grammar practice, authentic resources, videos and at least one standard text are used. Units are thematic. Assessments may include projects. Technology use is common and expected at times.**

LA CULTURA HISPANA (SPANISH LIT AND FILM)

Course 063000 A & B

Grades: 10 – 12**Prerequisite:** Spanish 4 or AP Spanish**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

This class will examine cultural themes of the twenty-four countries where Spanish is spoken as a means to understand the impact in the development of each country. Topics may include daily life, traditions, music, dance, history, geography, current events, social themes, etc. It will include terms, expressions, and differences among Spanish spoken across the various countries. **The NCAA accepts this credit as an approved Social Science course.**

AP SPANISH LANGUAGE*

Course 062083 A & B

Grades: 11 – 12**Prerequisite:** MYP Spanish III**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (world language or core elective) **H** ►

In this class, student communication, both written and oral, will be increasingly spontaneous, culturally appropriate, and developed at a higher level. Students will inquire, analyze, synthesize, and evaluate information from a variety of sources. **All students are expected to take the AP exam for the purpose of earning college credit.**

AP SPANISH LANGUAGE 2*

Course 062084 A & B

Grades: 11 – 12**Prerequisite:** AP Spanish Language**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (world language or core elective) **H** ►

This course builds upon the AP Spanish Language 1 curriculum. Student communication, both written and oral, will be increasingly spontaneous, culturally appropriate, and developed at a higher level than the previous year. Students will inquire, analyze, synthesize, and evaluate information from a variety of sources. Students will be encouraged to take the Advanced Placement Spanish Language exam in the spring. Students need to purchase a grammar workbook and a Spanish/English dictionary for this course.

IB DP SPANISH I*

Course 062090 A & B

Grade: 11

Prerequisite: MYP Spanish III, and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ▶

This course is a continuation of the previous level of language within the Diploma Programme. **The first year of the IB Diploma Programme, Language B, Standard Level, is designed to expand accuracy in grammatical structures, to increase fluency in oral and written work, and to develop reading comprehension skills in order to study and to analyze literary and non-technical pieces (e.g., essays, poetry, short stories) on a variety of life topics. Spanish and Latin American art, literature, music, history, and current issues are among the topics explored. Students continue to gain insight into the way of life in the Spanish-speaking world and should expect to speak only in the target language. At the conclusion of this course students will be prepared for and expected to take the IB assessment for college credit**

IB DP SPANISH II*

Course 062092 A & B

Grade: 12

Prerequisite: IB DP Spanish I and instructor approval

Length of course: 1 year/2 credits

Weighted grade: Yes

Description and credit type: (world language or core elective) **H** ▶

This course is a continuation of the previous level of language within the Diploma Programme. **The second year of the IB Diploma Programme, has three goals: 1) increasing the student's skills in grammar, comprehension, and oral and written proficiency; 2) further expanding the student's knowledge and understanding of Spanish and Latin American literature, culture, and history; and 3) becoming familiar with, practicing for, and completing the Standard Level exam. Students will research and prepare to discuss with competency various topics. A variety of readings as well as an advanced level text and workbook will be used. Students should look forward to feeling comfortable using the Spanish language almost exclusively in this class and when working outside of the class as well. Seniors will take an oral exam in early spring and the written exam in May.**

MYP CHINESE I (MANDARIN)

Course 062138 A & B

Grades: 9 – 12

Prerequisite: None

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (world language) **H** ▶

Students learn to communicate in Chinese (Mandarin) using various methods. Simple conversational language and grammar related to personal interests and Chinese (Mandarin) culture are used to draw connections and make comparisons.

MYP CHINESE II (MANDARIN)

Course 062143 A & B

Grades: 9 – 12

Prerequisite: MYP Chinese I

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (world language or core elective) **H** ▶

Level 2 builds on skills and knowledge of level 1 with increasing emphasis on pronunciation, intonation, and conventions, using more specialized vocabulary. Students will engage in more complex conversations. Narratives will be used to further knowledge of structural patterns and word elements.

MYP CHINESE III (MANDARIN)

Course 062144 A & B

Grades: 9 – 12

Prerequisite: MYP Chinese II

Length of course: 1 year/2 credits

Weighted grade: No

Description and credit type: (world language or core elective) **H** ▶

MYP Chinese III builds on the skills acquired in MYP Chinese II. Conversation and grammar related to personal interests, daily life, Chinese culture, history, and civilization continue to build connections and make comparisons. MYP Chinese III encompasses a broad range of reading, writing, speaking, and listening to reinforce accuracy and improve fluency using a variety of interactive methods.

CHINESE 4 (MANDARIN)**Grades:** 9 – 12**Prerequisite:** MYP Chinese III**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

In this class students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this class.

AP CHINESE LANGUAGE AND CULTURE**Course 062148 A & B****Grades:** 9 – 12**Prerequisite:** MYP Chinese III**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (world language or core elective) **H** ►

Students will learn how to communicate (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. Additionally, students will explore culture in both contemporary and historical contexts, and develop an awareness and appreciation for a variety of cultural products (for example, tools, books, music, laws, conventions, institutions), practices (patterns of social interactions within a culture), and perspectives (values, attitudes, and assumptions).

AP CHINESE LANGUAGE AND CULTURE 2**Course 062149 A & B****Grades:** 9 – 12**Prerequisite:** AP Chinese Language and Culture**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Materials fee:** AP exam cost of \$105 (financial assistance available if qualified)**Description and credit type:** (world language or core elective) **H** ►

This course builds upon the AP Chinese Language and Culture curriculum. Students will learn how to communicate (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. Additionally, students will explore culture in both contemporary and historical contexts, and develop an awareness and appreciation for a variety of cultural products (for example, tools, books, music, laws, conventions, institutions), practices (patterns of social interactions within a culture), and perspectives (values, attitudes, and assumptions).

IB DP CHINESE I (MANDARIN)***Course 062150 A & B****Grade:** 11**Prerequisite:** MYP Chinese (Mandarin) III and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme. **The first year of the diploma-level program is designed to expand accuracy in grammatical structures, to increase fluency in oral and written work, and to develop reading comprehension skills in order to study and to analyze non-technical and literary pieces (i.e., essays, poetry, short stories) as well as print, audio, and audiovisual texts on a variety of life topics. Students continue to gain insight into the way of life of Chinese culture and should expect to speak only in that target language. Students will take an oral exam in early spring and the written exam in May.**

IB DP CHINESE II (MANDARIN)***Course 062155 A & B****Grade:** 12**Prerequisite:** IB DP Chinese I and instructor approval**Length of course:** 1 year/2 credits**Weighted grade:** Yes**Description and credit type:** (world language or core elective) **H** ►

This course is a continuation of the previous level of language within the Diploma Programme.

AMERICAN SIGN LANGUAGE 1**Grades:** 9 – 12**Prerequisite:** None**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language) **H** ►

American Sign Language is a manual language which entails vocabulary, grammar, sentence structure, and body movement to express meaning for communication. Lessons or units also include cultural aspects to help the student understand and interact with the Deaf. Students are introduced to these aspects in units, which are ordered in a manner to build upon the previous units. Lessons are structured around language needed or common life situations. Major concepts are reinforced through reading materials, video, cooperative learning activities, and long-term assignments. All assignments are introduced to fulfill District 20's standards for world language. **Students in this course may also register for concurrent enrollment credit in connections with UCCS. This course does NOT fulfill the IB world language requirement and may NOT be accepted by some colleges as a world language credit.**

AMERICAN SIGN LANGUAGE 2

Course 062096 A & B

Grades: 10 – 12**Prerequisite:** ASL 1**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

American Sign Language (ASL) is a manual language which entails vocabulary, grammar, and sentence structure as well as body movement to express meaning for communication. ASL II will build upon ASL I with units including cultural aspects to help students understand and interact with the Deaf. Lessons are structured around language needed for common life situations. All assignments are introduced to fulfill District 20's standards for world language. **Students in this course may also register for concurrent enrollment credit in connections with UCCS. This course does NOT fulfill the IB world language requirement and may NOT be accepted by some colleges as a world language credit.**

AMERICAN SIGN LANGUAGE 3

Course 062097 A & B

Grades: 11 – 12**Prerequisite:** ASL 2**Length of course:** 1 year/2 credits**Weighted grade:** No**Description and credit type:** (world language or core elective) **H** ►

American Sign Language (ASL) is a manual language which entails vocabulary, grammar, and sentence structure as well as body movement to express meaning for communication. ASL III will build upon ASL II with units including cultural aspects to help students understand and interact with the Deaf. Lessons are structured around language needed for common life situations. All assignments are introduced to fulfill District 20's standards for world language. **Students in this course may also register for concurrent enrollment credit in connections with UCCS. This course does NOT fulfill the IB world language requirement and may NOT be accepted by some colleges as a world language credit.**

SPECIAL PROGRAMS

PEER PE

Course 083005

Grades: 10 – 12**Prerequisite:** Instructor approval and application process**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective)

This course is designed for those students requiring individualized instruction in Physical Education. Students in this course will participate in activities that incorporate team and individual sport skills, strategies in teamwork and problem solving, and provide training in skills needed for leisure activities. In addition, students will be provided the opportunity to improve and maintain physical fitness as well as develop an appreciation for lifelong physical fitness. Peer Partners will fully participate in all activities with their peer student. **Applications are available in the counseling office and in the Special Education department.**

MATH LAB

Course 119005 A & B

Grades: 10 – 12**Prerequisite:** Instructor approval and application process**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective)

A member of the math faculty staffs this specialized study hall and provides help in all areas of mathematics as is appropriate for each individual's situation. Students may register for both fall and spring semester. **Attendance is vital for this course. Students will support other students in the Math Access Center. Peer tutors will learn lifelong skills in communication, persistence, empathy, problem-solving skills, time management and organization. This is a great opportunity for students interested in a career in education.**

PEER PARTNER

Course 191035

Grades: 10 – 12**Prerequisite:** Instructor approval and application process**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective)

Students will be required to do a final paper/project. Attendance is vital for this course. Students will support special education students in their classroom, in mainstream classes, or at a job site. In addition, peer coaches must be flexible and be ready for assignment changes during the semester. This is a great opportunity for students interested in a career in education. **Applications are available in the counseling office and in the Special Education department.**

PEER TUTOR

Course 191007 A & B

Grades: 11 – 12**Prerequisite:** None**Length of course:** 1 semester/1 credit**Description and credit type:** (unrestricted elective)

Students enrolled in this course serve as a peer tutor under the guidance and supervision of a teacher.

STUDENT ASSISTANT

Course 191045

Grades: 11 – 12**Prerequisite:** Instructor approval**Length of course:** 1 semester/.5 credit**Description and credit type:** (unrestricted elective)

This program is designed to train students to provide assistance to students, faculty and staff as well as give students experience in office and classroom duties. **One-half credit is given, and evaluation is given on a “pass/fail” basis. Students may only have 1 assistant position per semester and this course will NOT be included in calculations for athletic eligibility.**

LIBRARY ASSISTANT**Grades:** 11 – 12**Prerequisite:** Instructor approval**Length of course:** 1 semester/.5 credit**Description and credit type:** (unrestricted elective)

This program is based on a contract agreement designed to train students in the operation of the library. This will include the database Library Solutions, basic library, and office responsibilities, and assisting the Library staff as needed. The students will learn to operate fax and copy machines, shelve books, check-out materials, deliver materials, work with computers and audio-visual equipment, and assist all library users. Students will be expected to sign a contract for the skills and duties they will learn. They will also be expected to sign a Confidentiality Agreement prior to working in the library. **One-half credit is given, and evaluation is given on a “pass/fail” basis. Students may only have 1 assistant position per semester and this course will NOT be included in calculations for athletic eligibility.**

STUDENT GOVERNMENT

Course 191080 A & B

Grades: 10 – 12**Prerequisite:** Election by students**Length of course:** 1 year/2 credits**Materials fee:** \$40**Description and credit type:** (unrestricted elective)

Members will learn by application procedures of government and parliamentary procedure. They will focus on leadership skills necessary for effective leadership in a high school setting. They will make decisions relative to student body matters. They will have a primary role in student activities and student assemblies. Credit earned will be applied as elective credit. **Student government is a leadership training course, involving such skills as group interaction, public speaking techniques, creative thinking techniques, group leadership, public relations, organizational skills, and decision-making skills.**

ACADEMIC SUPPORT

Course 191265 A & B

Grade: 9 – 12**Prerequisite:** none**Length of course:** 1 semester/1 credit

Description: Students will be supported using specially designed instruction to build their skills in English Language Arts and math based on individual goals and objectives identified within each student's IEP. Students will receive both direct instruction and indirect support based on individual levels and needs. Students will learn organizational and test preparation skills to support them to be successful. Additionally, students will receive services for transition goals, executive functioning goals, and IEP advocacy.

ATTENDANCE WAIVER AM

Course 191260 A & B

Grade: 11 – 12**Prerequisite:** Good academic standing and parent approval**Length of course:** 1 semester/NO credit

Description: First/Second Semester Morning Attendance Waiver. **Attendance waiver contracts are available in the counseling office and REQUIRED to be on file.**

ATTENDANCE WAIVER PM

Course 191255 A & B

Grade: 11 – 12**Prerequisite:** Good academic standing and parent approval**Length of course:** 1 semester/NO credit

Description: First/Second Semester Afternoon Attendance Waiver. **Attendance waiver contracts are available in the counseling office and REQUIRED to be on file.**

FRESHMAN SUCCESS

Course 191021 A & B

Grade: 9**Prerequisite:** none**Length of course:** 1 semester/.5 credits**Description and credit type:** (unrestricted elective)

Freshman will learn and practice skills and strategies to support success in high school and beyond; and become actively involved in their learning experience by applying their knowledge towards ownership and self-advocacy in educational and post-secondary opportunities. Particular areas of focus will include topics such as planning and organization, study skills, learning styles, how to study for tests, goal-setting and increasing content area skills and comprehension.

GUIDED STUDY HALL

Course 191100 A & B

Grades: 10-12**Prerequisite:** None**Length of course:** 1 semester/.5 credit**Weighted grade:** No**Description and credit type:** (unrestricted elective)

Guided Study is a monitored study hall, in which the facilitator actively works with students in completing assignments.

AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (AFJROTC)

Overview of Course

Air Academy High School offers a four-year Air Force Junior ROTC curriculum. Each year offers a unique academic focus while emphasizing leadership and character development concentrating on enhancing good citizenship. AFJROTC is a building block curriculum with the first year being a prerequisite for the upper level courses. **Note:** All cadets are required to wear the Air Force issued uniform and comply with Air Force Instruction 36-2901 dress and personal appearance standards (i.e. hair length). Cadets are required to perform community service as part of the leadership grade. Continued enrollment in JROTC year-to-year is contingent upon cadet performance at each previous level. Each AFJROTC course is a yearlong experience; new enrollments are only allowed at the beginning of the year. Transfer students and students coming from other JROTC programs (Army, Navy, etc.) will be evaluated on a case-by-case basis for placement in AFJROTC.

AF Jr ROTC 1

Course 089100 A & B

Grades: 9 – 12

Prerequisite: Application and Instructor Approval

Length of course: 1 year/2 credits

Cadet fee: \$40

Description and credit type: (core elective)

The first year of Aerospace Science is “A Journey Into Aviation History.” In this course students learn the origins of flight, early growth and formative years of the U.S., the progress of flight and use of airpower during World War I, the Golden Age of Aviation, World War II, Korean War, Vietnam, Desert Shield/Storm, Kosovo, etc. Students will study individual aviation pioneers such as Leonardo da Vinci, Orville and Wilbur Wright, Amelia Earhart, James Doolittle, Billy Mitchell, Carl Spaatz, Chuck Yeager, etc. The Leadership Education portion of the course will also address some of the customs, traditions, and history of the military and will emphasize leadership, character development, and good citizenship. Drill (marching) is also offered as part of the Leadership Education phase. First year cadets are required to perform 4 hours of community service per quarter.

AF Jr ROTC 2

Course 089105 A & B

Grades: 10 – 12

Prerequisite: AFJROTC 1 and instructor approval

Length of course: 1 year/2 credits

Cadet fee: \$25

Description and credit type: (core elective)

The second year of Aerospace Science is “The Science of Flight.” In this course students learn the fundamentals of flight and are exposed to weather and its effects on flight, human physiology in flight, basic aeronautics, flight power, aerospace power, basic navigation, and navigation instruments. Students will conduct research and deliver classroom presentations on aviation topics. The Leadership Education portion of the course will address communication, personal awareness, group dynamics, problem solving, and will emphasize leadership, character development, and good citizenship. Drill (marching) is also offered as part of the Leadership Education phase. Second year cadets are required to perform 5 hours of community service per quarter.

AF Jr ROTC 3

Course 089110 A & B

Grades: 11 – 12

Prerequisite: AFJROTC 1 and 2 and instructor approval

Length of course: 1 year/2 credits

Cadet fee: \$25

Description and credit type: (core elective)

The third year of Aerospace Science is "Exploring Space." It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere such as orbits and trajectories in unmanned satellites, and space probes. It investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and space missions. The section on manned spaceflight focuses on the space stations and beyond, covering milestones in the endeavor to land on the Moon and to safely orbit humans and crafts for temporary and prolonged periods. The course covers the human aspect of spaceflight, focusing on the human experience in space. It also examines the latest advances in space technology, including robotics in space, the Mars Rover, and commercial uses of space. The Leadership Education portion of the course covers life skills, career paths, financial planning, and college options. Leadership, character development, and good citizenship are emphasized throughout the course. Drill (marching) is also offered as part of the Leadership Education phase. Third year cadets are required to perform 8 hours of community service per quarter.

AF Jr ROTC 4

Grade: 12

Prerequisite: AFJROTC 1, and instructor approval /signature

Length of course: 1 year/2 credits

Cadet fee: \$25

Description and credit type: (core elective)

The fourth year of Aerospace Science is “Management of the Cadet Corps.” This curriculum is designed to focus on the fundamentals of leadership and management. Attention will be given to four specific areas, management techniques, management decisions, management functions, and managing self and others. Each cadet will hold a position of leadership in the cadet wing and be responsible for applying the techniques and principles learned in class. This course requires a significant investment in time and effort outside the classroom to make the cadet wing run effectively and efficiently. The Leadership Education portion of the course covers principles of management, skills for planning and developing goals, managing time and stress, group decision making, and leadership issues and challenges. Drill (marching) is also offered as part of the Leadership Education phase. Fourth year cadets are required to perform 12 hours of community service per quarter. Physical fitness training will make up 20% of the course, approximately one class session every other week.

ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

Overview of Course

AVID is a program designed to increase school wide learning and performance. The mission is to ensure that all students and most especially the least served students in the middle, capable of completing a college preparatory path will: succeed in the most rigorous curriculum, enter mainstream activities of the school, increase their enrollment in four-year colleges, and become educated and responsible participants and leaders in a democratic society. If accepted into the program, students will sign up for an MYP/IB curriculum or a traditional curriculum with at least two honors classes. Each applicant must also sign up for the appropriate grade level AVID elective listed below. **Students must complete an application and interview process to enroll in AVID.**

- AVID stands for Advancement Via Individual Determination
- AVID is for grades 9 – 12 and prepares students for college eligibility and success
- AVID places academically average students into advanced classes
- AVID is for all students, but it targets those in the academic middle
- AVID is implemented school wide and district wide
- AVID provides academic instruction in learning
- AVID provides organizational skills
- AVID provides tutorial support
- AVID provides motivational activities

AVID 9 Course 006000 A & B

Grade: 9

Prerequisite: Program coordinator approval

Length of course: 1 year/2 credits

Description and credit type: (core elective)

AVID is an elective course for students interested in pursuing a rigorous high school curriculum and who would benefit from support in mastering the academic skills necessary for high school success and for admittance to four year colleges and universities. The class focuses on writing, reading, inquiry, collaborative learning, public speaking, and organization. Students will receive tutorial support, listen to guest speakers, and take field trips to colleges to talk with college admissions representatives.

AVID 10 Course 006005 A & B

Grade: 10

Prerequisite: Program coordinator approval

Length of course: 1 year/2 credits

Description and credit type: (core elective)

AVID is an elective course for students interested in pursuing a rigorous high school curriculum and who would benefit from support in mastering the academic skills necessary for high school success and for admittance to four year colleges and universities. The class focuses on writing, reading, inquiry, collaborative learning, public speaking, and organization. Students will receive tutorial support, listen to guest speakers, and take field trips to colleges to talk with college admissions representatives.

AVID 11 Course 006010 A & B

Grade: 11

Prerequisite: Program coordinator approval

Length of course: 1 year/2 credits

Description and credit type: (core elective)

AVID is an elective course for students interested in pursuing a rigorous high school curriculum and who would benefit from support in mastering the academic skills necessary for high school success and for an admittance to four year colleges and universities. The class focuses on writing, reading, inquiry, collaborative learning, public speaking, and organization. Students will receive tutorial support, listen to guest speakers, and take field trips to colleges to talk with college admissions representatives.

AVID 12 Course 006015 A & B

Grade: 12

Prerequisite: Program coordinator approval

Length of course: 1 year/2 credits

Description and credit type: (core elective)

AVID is an elective course for students interested in pursuing a rigorous high school curriculum and who would benefit from support in mastering the academic skills necessary for high school success and for admittance to four year colleges and universities. The class focuses on writing, reading, inquiry, collaborative learning, public speaking, and organization. Students will receive tutorial support, listen to guest speakers, and take field trips to colleges to talk with college admissions representatives.

RAMPART EARLY COLLEGE ACADEMY (RECA)

Rampart High School has partnered with the University of Colorado, Colorado Springs (UCCS) to create the Rampart Early College Academy. This unique program allows Rampart students to take up to 30 college credits over their four years at Rampart High School for FREE while still being high school students at their traditional school. Students are supported through Rampart's AVID program to make sure that students are successful in their college coursework. Additionally, while earning UCCS college credit, RECA students will also earn their required high school credit.

Prerequisite: Students must complete an AVID/RECA application and interview process. Program coordinator approval required.

CAREER START at Pikes Peak State College (PPSC)

High school juniors and seniors can apply for this half day program in a technical or trade area of study. Students earn core elective high school credit as well as college credit that can be applied to an associate degree program or to the attainment of industry certification. Students attend courses at PPSC Centennial Campus.

To Apply: Students [complete the College & Career Services Application](#) form. The application window will open in January for students, parents, and the counselor to complete the District 20 application; there are also information sessions hosted at PPSC. Program application/registration at PPSC happens in March.

Cost: Academy School District 20 covers the cost of tuition, books, and program-specific fees (such as lab supplies) for Career Start courses. **Any additional college fees are the responsibility of students and parents.**

See the following for additional information:

[Career Start Information Page](#)

Available Programs in Career Start

- Automobile Collision Technology
- Broadcasting & Electronic Media
- Criminal Justice
- Culinary Arts
- Cyber Security
- Diesel Power Mechanics
- Fire Science Technology
- Medical Office Pathways
- Multimedia Graphic Design
- Veterinary Assistant
- Welding
- Zoo Keeping

Students must meet with their high school counselor before completing the District 20 application process electronically. It is recommended that students also attend an information session at their school or through Academy District 20 College and Career Services Department. There are also information sessions and Visit Days hosted by PPSC. Program application/registration at PPSC happens in March of each year.

Academy District 20 sponsors a total of 120 Career Start students each year. Qualified second year students are given priority. Depending on interest and numbers of applications, the application process for first year Career Start may be quite competitive.

Transportation is available for up to 50 Career Start students. The application for transportation is part of the application process for Career Start.

D20 COLLEGE & CAREER SPECIALIZED PROGRAMS

For further information on concurrent enrollment and other D20 College & Career specialized programs, please visit the following link:

[College and Career Services Parent and Student Program Guide](#)

Visit [D20 College and Career Services](#) to apply for all Concurrent or Dual Enrollment programs as well as District Level Career and Technical Education Programs. Applications are due no later than April 1, 2024.

D20 LIBERTY HIGH SCHOOL CTE CAMPUS PATHWAYS

Academy District 20 and Liberty High School are pleased to provide tuition-free PPSC Campus Pathway courses at the Liberty High School campus to students from throughout the district wishing to pursue licensure as a:

- Certified Nursing Assistant (CNA)
- Emergency Medical Technician (EMT)

If you are interested in applying for the CNA or EMT program, begin by discussing the option with your High School counselor.

All in-district students can also work toward industry certification by enrolling in the following CTE programs at Liberty High School:

- Automotive
- Building Construction

[Career and Technical Education \(CTE\) Options](#)

D20 CTE NURSING ASSISTANT@

Course 074100 A & B

Grade: 11 – 12

Prerequisite/Corequisite: Strongly Recommend Anatomy and Physiology. Students who would like to participate in advanced and postsecondary opportunities will only be approved if they meet the following criteria:

1. No grades lower than a "C" for the previous and current semesters of high school coursework (and college coursework if applicable);
2. No grades lower than a "B" for the previous and current semesters in the high school (and college if applicable) content area for which the student is applying to take advanced coursework;
3. On-track for graduation and not in need of remedial coursework;
4. Up-to-date with high school ICAP and/or postsecondary goals that are aligned to postsecondary planning;

Length of course: 1 year/2 credits

Materials fee: \$100 for program supplies and expenses, \$75 for background check, \$25 for liability insurance, and \$150 for board exams

Description and credit type: (core elective)

In this course, students will prepare for the nurse aide certification exam by expanding foundational healthcare skills and applying basic nursing theory to the practice of client care. Through lab-based simulations and clinical experiences, students will demonstrate nursing principles and competencies, restorative services, safety practices, and emergency care while they model professional skills.

*Special Note: This is a set of college courses offered through Pikes Peak State College (PPSC) and taught by PPSC instructors. Students who are accepted must enroll at PPSC and grades posted on transcripts will apply to both PPSC and Academy District 20. *Special Note: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. District 20 does provide transportation to and from home high schools for the AM sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School. **Students cannot begin clinicals and take the certifying exam until they reach the age of 16. Students must be 16 within 12 months of enrollment in the program.**

D20 CTE EMERGENCY MEDICAL TECHNICIAN@

Course 079000 A & B

Grade: 12

Prerequisite/Corequisite: Strongly Recommend Anatomy and Physiology. Students who would like to participate in advanced and postsecondary opportunities will only be approved if they meet the following criteria:

1. No grades lower than a "C" for the previous and current semesters of high school coursework (and college coursework if applicable);
2. No grades lower than a "B" for the previous and current semesters in the high school (and college if applicable) content area for which the student is applying to take advanced coursework;
3. On-track for graduation and not in need of remedial coursework;
4. Up-to-date with high school ICAP and/or postsecondary goals that are aligned to postsecondary planning;

Length of course: 1 year/2 credits

Materials fee: \$100 for program supplies and expenses, \$75 for background check, \$25 for liability insurance, and \$150 for board exams

Description and credit type: (core elective)

In this course, students prepare for the National Registry of Emergency Medical Technicians exam by applying foundational healthcare skills to the practice of basic emergency pre-hospital client care. Through classroom simulations and clinical experiences, students will demonstrate an understanding of basic anatomy and psychology, patient assessment, communication strategies, and emergency medical interventions. *Special Note: This is a set of college courses offered through Pikes Peak State College (PPSC) and taught by PPSC instructors. Students who are accepted must enroll at PPSC and grades posted on transcripts will apply to both PPSC and Academy District 20. *Special Note: This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. District 20 does provide transportation to and from home high schools for the AM sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School. **Students cannot begin clinicals or take the national exam until they reach the age of 18. Students must be 18 within 12 months of enrollment in the program.**

AUTOMOTIVE SERVICE TECHNOLOGY 1@**Course 108310 A & B****Grade:** 11 – 12**Prerequisite:** None, recommended to have successfully completed Algebra 1 & Geometry**Length of course:** 1 year/2 credits**Materials fee:** \$100 plus any additional fees for certification exams**Description and credit type:** (core elective)

In this first course of a two-year course sequence, students participate in real-world auto service training through maintenance, diagnosis, removal, and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training. **This is a year-long double block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course. District 20 does provide transportation to and from home high schools for the AM sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.**

AUTOMOTIVE SERVICE TECHNOLOGY 2@**Course 108315 A & B****Grade:** 12**Prerequisite:** Successful completion of Automotive Services 1 and instructor approval**Length of course:** 1 year/2 credits**Materials fee:** \$100 plus any additional fees for certification exams**Description and credit type:** (core elective)

In this second course of a two-year course sequence, students will continue to participate in real-world auto service training through maintenance, diagnosis, removal, and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training. *Special Note: This is a year-long double-block course held at Liberty High School (i.e., Blue 1 and Blue 2 at LHS). Students can earn up to four elective credits for successful completion of this course. District 20 does provide transportation to and from home high schools for the AM sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.

BUILDING CONSTRUCTION TECHNOLOGY 1@**Course 101010 A & B****Grade:** 10 – 12**Prerequisite:** None, recommended to have successfully completed Algebra 1 & Geometry**Length of course:** 1 year/2 credits**Materials fee:** \$100 plus any additional fees for tools and supplies and certification exams**Description and credit type:** (core elective)

In this first course of a two-year sequence, students will apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction with a focus on Pre-Apprentice Certification Training (PACT) in the following areas: (1) Building Trades, Safety, and First Aid; (2) Construction Math; (3) Tools and Construction Materials; and (4) Employability. Students will gain a foundation for entry-level employment or further schooling/training. *Special Note: This is a year-long double-block course (i.e., Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course. District 20 does provide transportation to and from home high schools for the AM sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.

BUILDING CONSTRUCTION TECHNOLOGY 2@**Course 101015 A & B****Grade:** 11 – 12**Prerequisite:** Successful completion of Building Construction Technology 1 and instructor approval**Length of course:** 1 year/2 credits**Materials fee:** \$100 plus any additional fees for tools and supplies and certification exams**Description and credit type:** (core elective)

In this second course of a two-year sequence, students will continue to apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction with a focus on Pre-Apprentice Certification Training (PACT) in the following areas: (1) Building Trades, Safety, and First Aid; (2) Construction Math; (3) Tools and Construction Materials; and (4) Employability. Students will gain a foundation for entry-level employment or further schooling/training. *Special Note: This is a year-long double-block course (i.e., Blue 1 and Blue 2). Students can earn up to four elective credits for successful completion of this course. District 20 does provide transportation to and from home high schools for the AM sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.

INTERNATIONAL SALON AND SPA ACADEMY (ISSA)

Students who are juniors or seniors may enroll in a two-year hairstyling certification program through the International Salon and Spa Academy (ISSA). Students earn high school credit while preparing for their industry certification; however, no college credit is awarded. Students attend half-day courses at ISSA.

To Apply: The application window will open in January or February for students, parents, and the counselor to complete the District 20 application; there will also be a site visit and information session at ISSA. Program registration at ISSA happens in mid Spring.

Cost: Academy School District 20 covers the cost of tuition for ISSA students. Any additional fees are the responsibility of students and parents.

Additional information:

- [ISSA Website](#)

HIGHER EDUCATION ADMISSIONS **REQUIREMENTS**

Four-year colleges in Colorado know that academic preparation in English and math will help students be more likely to succeed in college. Higher Education Admissions Recommendations (HEAR) is one factor that four-year institutions consider in the admission process. HEAR is outlined by the Colorado Department of Education (CDE) to include a certain level of math, English, physical sciences, social sciences, foreign languages and electives, [see the recommendations at the CDE](#). Private colleges and universities set their own admission standards, so students should contact those institutions directly for information regarding their enrollment policies. Additionally, public two-year colleges have open enrollment policies, meaning that students applying to these schools do not need to meet HEAR. College Admissions information for the state of Colorado can be found at [Colorado Department of Higher Education](#).

HB 05-1057 requires districts to provide parents a list of courses the district has available that satisfy the CCHE's Higher Education Admission Guidelines. The HEAR document is a current list of courses in Academy District 20 that meet those criteria. To view or download the list of Academy District 20's HEAR courses, please visit the [D20 HEAR page](#).

GRADUATION REQUIREMENTS

50 CREDITS & Demonstrated Proficiency in English and Math

Demonstration of Proficiency		
Option	English Minimum	Math Minimum
SAT	470	500
ACT	18	19
Advanced Placement	2	2
ASVAB	31	31
Concurrent Enrollment	Grade of C-	Grade of C-
Capstone Project	Passing Grade	Passing Grade
ACT WorkKeys®	Bronze	Bronze
International Baccalaureate	4	4
Industry Certification	Certificate	Certificate
State Assessment	TBD	TBD

Graduation Requirements (50 Credits)

English 8 credits								
Math 6 credits								
Science 6 credits								
Social Science 3 credits								
Civics 1 credit								
U S History 2 credits								
World Language 2 credits								
Core * 6 credits								
Physical Education 3 credits								
Health 1 credit								
Fine Arts** 1 credit								
Electives 11 credits								

* Core: Includes English, Math, Science, Social Science, and World Language

** Fine Arts: Includes visual and performing arts