

DISCOVERY CANYON CAMPUS

INTERNATIONAL BACCALAUREATE
WORLD SCHOOL

2023-2024

COURSE GUIDE



DISCOVERY CANYON CAMPUS HIGH SCHOOL	4
Academy School District 20 Mission	4
Administration and Counseling Office Contact Information	4
Principal’s Welcome Letter	5
COURSE CURRICULUM GUIDE	6
Academy School District 20 Graduation Requirements	6
Colorado Math & Language Arts Demonstration of Proficiency	8
Higher Education Admission Recommendation (HEAR) Guidelines	9
College Admissions Recommendations	9
Other Great Options for Students after High School	9
ATHLETICS & ACTIVITIES ELIGIBILITY	10
General Eligibility Requirements	10
NCAA Eligibility	10
INTERNATIONAL BACCALAUREATE (IB)	13
Mission Statement	13
Middle Years Programme (MYP)	14
Diploma Programme (DP)	15
Career-related Programme	17
IB Scholars	18
HONORS & ADVANCED PLACEMENT (AP)	20
Honors Courses	20
Advanced Placement Courses	20
SCHEDULING	22
Schedule Changes	22
Withdrawing from a Course	23
Student Classification	23
Student Transcripts	23
Class Rank Policy	23
Academic Honor Roll and Letters	24
Academic Hall of Fame	24
COURSE OFFERINGS	25
Course Guide Symbols	25
BUSINESS	26
LANGUAGE & LITERATURE	29
INDIVIDUALS & SOCIETIES	35

MATH	39
PERFORMING ARTS	44
Music Studies	44
Theatre	46
Vocal Music	50
Instrumental Music	52
PHYSICAL EDUCATION	54
SCIENCE	59
LANGUAGE ACQUISITION	64
French	64
Spanish	67
Chinese (Mandarin)	69
VISUAL ARTS	71
TEACHER CADET	76
COMPUTER SCIENCES	77
PROJECT LEAD THE WAY (PLTW) PATHWAYS	78
PLTW Honors Biomedical Sciences	78
PLTW Engineering Technology	80
PLTW Computer Sciences	83
IB CORE	85
SPECIAL PROGRAMS	86
CAREER & TECHNOLOGY EDUCATION (CTE) CAMPUS PATHWAY COURSES	88
Automotive Technology	88
Building Construction Technology	90
Healthcare	91
AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (ROTC)	92
ACADEMY SCHOOL DISTRICT 20 POST-SECONDARY OPPORTUNITIES	94
Outside Credit	95

DISCOVERY CANYON CAMPUS HIGH SCHOOL

Academy School District 20 Mission Statement

We educate and inspire students to thrive.

ADMINISTRATION

719-234-2800

Dr. Mark Wahlstrom, Principal

mark.wahlstrom@asd20.org

Mr. Brian Herman, Assistant Principal

brian.herman@asd20.org

Mr. David King, Assistant Principal

david.king@asd20.org

Ms. Krista Parnell, Assistant Principal

krista.parnell@asd20.org

Mr. Ron Sukle, Assistant Principal/Athletic Director

ronald.sukle@asd20.org

Ms. Christy Smith, Dean of Students

christy.smith@asd20.org

COUNSELING OFFICE

719-234-1831

Mrs. Sabrina Perez A-C; 504

sabrina.perez@asd20.org

Mrs. Staci Wayant - D - Mc

staci.wayant@asd20

Mrs. Kristin Evert - Me-Z

kristin.evert@asd20.org

Mrs. Amy Geraci – TAG

amy.geraci@asd20.org

Mrs. Samantha Arebalo - SAFE Counselor

samantha.arebalo@asd20.org

Mx. Stephanie Mijo - College & Career

stephanie.mijo@asd20

DISCOVERY CANYON CAMPUS HIGH SCHOOL

Thunder Strong We Belong!

Welcome to Discovery Canyon Campus High School-Home of THE THUNDER! We are proud that you have chosen to pursue your high school education on our campus.

DCCHS is unique in many ways. We are part of a Pre-K through 12th grade campus that educates almost 2400 students. We are one of the only public schools in North America that houses all four levels of the International Baccalaureate (Primary Years, Middle Years, Diploma Programme, and Career-Related) Programmes on the same campus.

But what really makes us unique is our community. We have a community (including students, parents, staff, community, and business partners) which values children and a quality education. All levels of our community are active in making Discovery Canyon Campus High School the best school in Colorado through their participation in academics, student activities, arts, and athletics. Our parent organizations support the school in amazing ways! Discovery Canyon Campus High School has a culture of involvement, and we want YOU to be a part of that culture.

This book is a guide for your path through your educational years at Discovery Canyon Campus High School. It contains information that you will need to choose your classes for next year, determine what classes are needed for graduation, and what academic path you want to follow based on your post-secondary plans.

All of the choices you have to make can seem daunting. There are many people here to help you make those choices. Your counselor and teachers have years of experience and expertise to share with you. Take advantage of their wisdom.

Enjoy your year. Make sure you become involved and become part of the school. It will make school more enjoyable, allowing you to make new friends, and help you be more successful!

Best wishes to you for the coming school year.

Dr. Mark G. Wahlstrom
Principal

COURSE CURRICULUM GUIDE

This course 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 Discovery Canyon Campus High School (DCCHS). It also contains brief descriptions of all the courses offered and information regarding student expectations at DCCHS.

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 recommendation, 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 or staffing limitations.

New Students to the District Should:

Complete the district registration process found here: <https://www.asd20.org/register/>
Call DCC High School (719-234-1831) to schedule an appointment with a counselor. Students are required to bring a withdrawal form with grades and a current transcript from their previous school to help ensure correct placement.

Academy School District 20 Graduation Requirements

Graduation requirements for Academy School District 20 students include:

1. Meet coursework requirements listed in the table below
2. Demonstrate proficiency in both math and English language arts (ELA). (Options offered through DCCHS are highlighted yellow)

Coursework Requirements:

How many units of credit do I need...	to meet Academy District #20 Graduation Requirements	to meet Colorado Higher Education Admissions Requirements*
English	4 years (8 D20 credits)	4 years (8 D20 credits)
Science*	3 years (6 D20 credits) 2 years (4 D20 credits) must be lab-based	3 years (6 D20 credits) 2 years (4 D20 credits) must be lab-based
Health	1 D20 credit	0

How many units of credit do I need...	to meet Academy District #20 Graduation Requirements	to meet Colorado Higher Education Admissions Requirements
Mathematics**	3 years (6 D20 credits) Must complete Algebra I and Geometry (either in middle school or high school). 6 math credits must be earned in high school.	4 years (8 D20 credits) Must include Algebra I, Geometry, Algebra II or equivalents
Social Science***	3 years (6 D20 credits) 1 D20 credit Civics 2 D20 credits U.S. History 3 D20 credits unrestricted	3 years (6 D20 credits) At least 1 year (2 D20 credits) must be in U.S. or world history.
World Language	1 year (2 D20 credits)	2 years (4 D20 credits)
Core Electives	6 D20 credits Core electives include English, foreign language, mathematics, science, and social science.	2 years (4 D20 credits) Academic electives include additional courses in English, mathematics, natural/physical sciences and social sciences, foreign languages, art, music, journalism, drama, computer science, honors, Advanced Placement, and International Baccalaureate courses.
Core Total	35 D20 credits	17 units (34 D20 credits)
Physical Education	3 D20 credits	
Arts****	1 D20 credit	
Unrestricted Electives	11 D20 credits	
TOTAL	50 D20 credits	17 units (34 D20 credits)

* Four of the six credits must be from laboratory science classes. Specific requirements may be waived with the approval of the Principal led committee. Appeals will be directed to the Deputy Superintendent.

** All students must complete Algebra 1 and Geometry (either in middle school or in high school).

*** Social Science requirements include two required credits of U.S. History and one credit of Civics.

**** Arts requirements include visual and performing arts.

Colorado Math and English Language Arts Demonstration of Proficiency:

Menu of Options	English	Math
Classic <u>ACCUPLACER</u>	62 on Reading Comprehension or 70 on Sentence Skills	61 on Elementary Algebra
Next Generation ACCUPLACER	241 on Reading or 236 on Writing	255 on Arithmetic (AR) or 230 on Quantitative Reasoning, Algebra, and Statistics (QAS)
ACT	18 on ACT English	19 on ACT Math
ACT WorkKeys National Career Readiness Certificate	Bronze or higher	Bronze or higher
Advanced Placement (AP)	2	2
ASVAB	31 on the AFQT	31 on the AFQT
Concurrent Enrollment	Passing grade per district and higher education policy	Passing grade per district and higher education policy
District Capstone	Individualized	Individualized
Industry Certificate	Individualized	Individualized
International Baccalaureate (IB)	4	4
SAT Scores update for new SAT (2016)	470	500

Higher Education Admission Recommendations (HEAR) Guidelines

Enacted in 2005, HB 05-1057 requires school districts to provide to parents a list of courses the district has available that satisfy the CCHE's Higher Education Admission Guidelines. Please see the [D20 list](#) of available courses for more information.

College Admissions Recommendations

We encourage DCC students to plan for post-high school education. Listed below are the Colorado Department of Higher Education's Higher Education Admissions Recommendations (HEAR) for attending a 4-year institution in Colorado:

English	4 years
Mathematics: must include Algebra I, Geometry, Algebra II or equivalent courses	4 years
Natural/Physical Sciences: 2 units must be lab-based or equivalent	3 years
Social Sciences: at least 1 unit in US or World History	3 years
World/Foreign Language	1 year
Academic Electives: acceptable academic electives include additional courses in English, mathematics, natural/physical sciences and social sciences, foreign languages, art, music, journalism, drama, computer science, honors, Advanced Placement, International Baccalaureate courses, and appropriate CTE courses.	2 years

Other Great Options for Students after High School

2-YEAR COLLEGE: Community college is an excellent way to start exploring your college career at a lower cost. Students can apply for the Bridge to Bachelor's program; students earn guaranteed admittance to a 4-year Colorado state university after completing their Associates of Applied Science at the community college level. Learn more at <https://www.cccs.edu/transfer/>.

APPRENTICESHIP: Generally a four-year program offering journeyman certificates and associate's degrees. Apprentices receive paid on-the-job training and enroll in technical courses at community colleges. One example is the [Colorado Contractors Association](#).

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.

ATHLETICS & ACTIVITIES ELIGIBILITY

General Eligibility Requirements

All student athletes must meet the General Eligibility Requirements set forth by the Colorado High School Activities Association and Discovery Canyon during each semester of participation in athletics. Each student/athlete must take a **minimum** of 2.5 Carnegie units (the equivalent of 5 full credit classes) during the current semester of participation as well as the previous semester to competition. During those semesters, the student/athlete may not fail more than **one** (1) class to be eligible to participate. Any discrepancy in this area will deem the student/athlete ineligible to participate. That athlete must see the athletic director to understand how he or she can regain eligibility status. Once students have entered high school they have 8 consecutive semesters to complete their athletic eligibility.

NCAA Eligibility

Students who are interested in competing in college athletics at the Division I or II level must create a NCAA account before the end of their sophomore year. This form is to be completed on-line at www.eligibilitycenter.org. There are two copies that the counseling office should also receive: One to be sent with an official transcript at the time of the completion of paperwork with NCAA and the second to be sent with an official transcript after graduation.

ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at eligibilitycenter.org. If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page at eligibilitycenter.org.

ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA and earn an ACT or SAT score that matches your core-course GPA.

CORE COURSES

Only courses that appear on your high school's list of NCAA core courses will count toward the 16 core-course requirement; visit eligibilitycenter.org/courselist for a full list of your high school's approved core courses. Complete 16 core courses in the following areas:

DIVISION I

Complete 10 NCAA core courses, including seven in English, math or natural/physical science, before your seventh semester.



DIVISION II



GRADE-POINT AVERAGE

The NCAA Eligibility Center calculates your grade-point average based only on the grades you earn in NCAA-approved core courses.

- DI requires a minimum 2.3 GPA.
- DII requires a minimum 2.2 GPA.

SLIDING SCALE

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about test scores at ncaa.org/test-scores.

TEST SCORES

You may take the SAT or ACT an unlimited number of times before you enroll full time in college. Every time you register for the SAT or ACT, use the NCAA Eligibility Center code 9999 to send your scores directly to us from the testing agency. We accept official scores only from the ACT or SAT, and won't use scores shown on your high school transcript. If you take either test more than once, the best subscore from different tests are used to give you the best possible score.



HIGH SCHOOL TIMELINE

9TH GRADE



- *Start planning now!* Take the right courses and earn the best grades possible.

- Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist.
- Sign up for a free Profile Page at eligibilitycenter.org for information on NCAA requirements.

10TH GRADE

REGISTER



- If you fall behind academically, ask your counselor for help finding approved courses you can take.

- Register for a Profile Page or Certification Account with the NCAA Eligibility Center at eligibilitycenter.org.
- Monitor your Eligibility Center account for next steps.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.

11TH GRADE



- Check with your counselor to make sure you are on track to complete the required number of NCAA-approved courses and graduate on time with your class.

- Take the ACT or SAT and submit your scores to the NCAA Eligibility Center using code 9999.
- Ensure your sports participation information is correct in your Eligibility Center account.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.

12TH GRADE



- Complete your final NCAA-approved core courses as you prepare for graduation.

- Take the ACT or SAT again, if necessary, and submit your scores to the NCAA Eligibility Center using code 9999.
- Request your final amateurism certification beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your NCAA Eligibility Center account at eligibilitycenter.org.
- After you graduate, ask your counselor to upload your final official transcript with proof of graduation to your NCAA Eligibility Center account.
- *Reminder:* Only students on an NCAA Division I or II school's institutional request list will receive a certification.

How to plan your high school courses to meet the 16 core-course requirement:

$$4 \times 4 = 16$$

9TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

10TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

11TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

12TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

For more information: ncaa.org/playcollegesports | eligibilitycenter.org

Search Frequently Asked Questions: ncaa.org/studentfaq

Follow us: @NCAAEC @playcollegesports @ncaaec

NCAA is a trademark of the National Collegiate Athletic Association. August 2019

INTERNATIONAL BACCALAUREATE (IB)

Discovery Canyon Campus High School is an International Baccalaureate World School. All students in grades 6-10 access the International Baccalaureate Middle Years Programme (MYP). In the 11th and 12th grade, students may pursue the IB Diploma Programme, the IB Career-related Programme, be an IB Scholar, or access the IB experience through general coursework. We believe that ALL students should access the most rigorous coursework available to them.

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 second language proficiency,
- 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.

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.

IB Middle Years Programme (MYP) (Grades 6-10)

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 two years 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](#) [PDF, 647KB]
- consistently have greater success in upper level IB examinations
- [thrive in positive school cultures where they are engaged and motivated to excel](#) [PDF, 3.2MB]
- develop an understanding of global challenges and a commitment to act as responsible citizens.

Personal Project:

The Personal Project is a student-centered and age-appropriate practical exploration that serves as the culminating experience of the MYP. 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. It 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.

Because ALL students at DCC complete the MYP, completion of the Personal Project is required. Students are supported through ThunderTime, however, some of the project needs to be completed at home. Successful completion of the project results in half of an elective credit. Students who do not complete the project will receive an Incomplete on their project.

For more information on the MYP and the Personal Project, please contact: Alisa Schleder, MYP Coordinator alisa.schleder@asd20.org.

Diploma Programme

Through the Diploma Programme, Discovery Canyon develops students who:

- have excellent breadth and depth of knowledge,
- flourish academically, emotionally, and physically,
- study at least two languages,
- excel in traditional academic subjects,
- demonstrate high levels of resilience and flexibility,
- be internationally-minded and globally aware,
- explore the nature of knowledge through the programme's unique [Theory of Knowledge course](#).

Diploma Programme students take at least six IB courses, one from each subject group (listed below), and complete the DP core. Made up of the three required components, the DP core aims to broaden students' educational experience and challenge them to apply their knowledge and skills.

The six subject groups are:

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

DCC offers multiple courses within each subject group. Students may opt to study an additional science, individuals and societies, or language course rather than a course in the arts. DP students will take three or four higher level (HL) courses, and two or three standard level (SL) courses, for a total of 6 IB courses over the two year program. Standard level courses typically last one year. Higher level courses extend over both the junior and senior year. 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 the higher level. DP students must register for and complete all elements of the IB assessments for each IB class in order to successfully earn their IB diploma. In addition to the six IB courses, DP students also complete the three elements of the DP core, which are:

- [Theory of knowledge](#), in which students reflect on the nature of knowledge and on how we know what we claim to know.
- [The extended essay](#), which is an independent, self-directed piece of research and analysis, finishing with a 4,000-word paper.
- [Creativity, activity, service](#), in which students complete a project related to those three concepts.

Students attending a Colorado public university are awarded a minimum of 24 credit hours for earning an IB diploma.

All DP are required to take the end of course IB exams. Taking an IB year end examination is a strong predictor of success in post-secondary education. Financial support is available for those who qualify. For more information on college credit in Colorado and the Diploma Program [click here](#). For more information on university admission and recognition worldwide, please see the IB University Admissions page [here](#).

IB Diploma Programme Example Schedules

	9th	10th	11th	12th
Math	MYP Algebra 1	MYP Geometry	Algebra II	IB Math Applications and Interpretation SL
Lang & Lit	MYP Freshman Lang & Lit	MYP Sophomore Lang & Lit	IB Lang & Lit HL I	IB Lang & Lit HL II
Individuals and Societies	MYP Civics/ MYP Econ	MYP US History	IB 20th Century World History HL I	IB History of the Americas HL II
Science	MYP Biology	MYP Chemistry	HL Biology I	HL Biology II
World Language	MYP French II	MYP French III	IB French IV SL	IB French V SL
Elective	Intro to PE/ Health	Team Sports/ Speech and Debate	IB DP Theory of Knowledge	IB DP Theory of Knowledge/ Attendance Waiver
Elective	Art 1/Intro to Business	Marketing 1	Marketing II	Advanced Marketing
Elective	Study Hall	Attendance Waiver	IB Psychology SL	Attendance Waiver

Your exact schedule will vary based on the courses you choose and if those courses are one or two years in length.

If you have questions or would like to register for the Career-Related Programme, please contact Melissa Knight at (719) 234-2897 or melissa.knight@asd20.org. You can also find more information on the [DCC IB web page](#). All IB courses are weighted, and IB course descriptions are listed under the appropriate subject.

Career-Related Programme (CP)

The CP is a framework of international education that incorporates the values of the IB into a unique programme addressing the needs of students engaged in career-related education. The CP was specifically developed for students who wish to engage in career-related learning while gaining transferable and lifelong skills in applied knowledge, critical thinking, communication, and cross-cultural engagement. The programme leads students to success beyond high school, whether they choose higher education, apprenticeships, or employment.

The CP Curriculum consists of:

- At least two IB courses offered at DCCHS,
- [the CP core](#),
- Career- related Studies (listed below)
 - Biomedical Sciences (minimum 3 courses)
 - Business/Marketing (minimum 3 courses)
 - Computer Graphic Design (?)
 - Computer Science (2)
 - Engineering (3)
 - Leadership/JROTC (3)
 - Teacher Cadet (both courses)

The CP core components give context to the IB courses and the career-related study, drawing all aspects of the framework together. Through the CP core, students develop personal qualities and professional skills, as well as intellectual habits required for lifelong learning. Students must meet the minimum requirements of the career-related study (listed above) AND be enrolled in the pathway both their junior and senior year.

The CP enables students to:

- combine academic subjects with their professional interests and skills,
- think critically and creatively,
- communicate clearly and effectively in a variety of situations,
- work independently and in collaboration with others,
- consider new perspectives and other points of view,
- develop greater self-confidence and self-awareness,
- demonstrate high levels of resilience and flexibility,
- be internationally-minded and globally aware,
- apply their knowledge to real-world scenarios and situations.

CP students must register for and complete all elements of the IB assessments for at least two IB classes in order to successfully earn their IB CP certificate. Taking an IB year end examination is a strong predictor of success in post-secondary education. Financial support is available for those who qualify. For more information on college credit in Colorado and the Diploma Program [click here](#). For more information on university admission and recognition worldwide, please see the [click here](#).

If you have questions or would like to register for the Career-Related Programme, please contact Melissa Knight at (719) 234-2897 or melissa.knight@asd20.org. You can also find more information on the [DCC IB web page](#). All IB courses are weighted, and IB course descriptions are listed under the appropriate subject.

IB Career-Related Programme Example Schedules

	9th	10th	11th	12th
Math	MYP Algebra II	IB Pre-Calc	IB Math Analysis SL	AP Calculus AB
Lang & Lit	MYP Freshman Lang & Lit	MYP Sophomore Lang & Lit	IB Lang & Lit HL I	IB Lang & Lit HL II
Individuals and Societies	MYP Civics/ MYP Econ	MYP US History	IB 20th Century World History HL I	IB History of the Americas HL II
Science	MYP Biology	MYP Chemistry	Physics	IB Biology SL
World Language or Elective	MYP Mandarin I	MYP Mandarin II	MYP Mandarin III	Attendance Waiver
Elective	Intro to PE/ Health	Team Sports/ Speech and Debate	Personal and Professional Skills	Personal and Professional Skills/ Individual Sports
Elective	Art I/Ceramics I	Intro to Business/ Yoga I	Attendance Waiver	Attendance Waiver
Elective	Principles of Biomedical Science	Human Body Systems	Medical Interventions	Biomedical Innovation

Your exact schedule will vary based on the courses you choose and if those courses are one or two years in length.

IB Scholars

At Discovery Canyon Campus, we believe that ALL students should have access to the most rigorous coursework available to them. Additionally, accessing the International Baccalaureate core philosophy develops students who are able to:

- engage in learning that makes a positive difference to their community,
- think critically and creatively,
- communicate clearly and effectively in a variety of situations,
- work independently and in collaboration with others,
- consider new perspectives and other points of view,
- develop greater self-confidence and self-awareness,
- demonstrate high levels of resilience and flexibility,
- be internationally-minded and globally aware.

IB Scholars are recognized by Discovery Canyon Campus and complete two IB upper level courses at either the Higher Level or Standard Level (HL or SL).

Many students who score well on individual course exams are awarded advanced standing and/or college credit at colleges and universities around the world. Taking an IB year end examination is a strong predictor of success in post-secondary education. Financial support is available for those who qualify. For more information on college credit in Colorado and the Diploma Program

[click here](#). For more information on university admission and recognition worldwide, please see the [click here](#).

If you have questions or would like to register for an upper level IB course, please contact your Alpha Counselor or Melissa Knight at (719) 234-2897 or melissa.knight@asd20.org. You can also find more information on the [DCC IB web page](#). All IB courses are weighted, and IB course descriptions are listed under the appropriate subject.

IB Scholar Example Schedule

	9th	10th	11th	12th
Math	MYP Algebra I	MYP Geometry	Algebra II	Statistics
Lang & Lit	MYP Freshman Lang & Lit	MYP Sophomore Lang & Lit	IB Lang & Lit HL I	IB Lang & Lit HL II
Individuals and Societies	MYP Civics/ MYP Econ	MYP US History	IB Psychology SL	IB Global Politics SL
Science	MYP Biology	MYP Chemistry	Physics	IB Sports Exercise Health Science SL
World Language/ Elective	MYP French II	MYP French III	IB French IV	Attendance Waiver
Elective	Intro to PE/ Health	Team Sports/ Strength and Conditioning I	Strength and Conditioning II	Attendance Waiver
Elective	Intro to Business/ Intro to Art	DECA	DECA	DECA
Elective	Study Hall	Attendance Waiver	Attendance Waiver	IB Business Management SL

Your exact schedule will vary based on the courses you choose and if those courses are one or two years in length.

HONORS & ADVANCED PLACEMENT (AP)

Honors Courses

We believe that the MYP courses offer a rigorous challenge for all students; however, we continue to offer Freshman and Sophomore Honors level courses in Mathematics and Language & Literature because the standardized testing results in these content areas lead to more accuracy in placement.

Honors courses are intended to meet the needs of students whose ability level requires *significant* acceleration of the MYP curriculum. Students who enroll in honors classes are expected to work at a high level of competence and to responsibly accept the academically rigorous challenges set forth. Honors courses exceed the minimum state standards for core content areas.

All classes which have received district approval for weighted grade status are labeled Honors and are indicated as weighted credit with a * in the Course Guide.

All students considering honors level courses should carefully consider his/her level of preparation and commitment to the content area. Likewise, students should discuss all options with parents and teachers. Students enrolled in honors courses are expected to routinely demonstrate high integrity, motivation, maturity, and intellectual curiosity.

The successful Honors level student must:

- Possess the prerequisite skills, work ethic, and attitudes necessary for success at the honors level;
- Make a conscious decision to commit to the academic rigor required in an Honors course;
- Display past and current academic performance in the above average range;
- Meet proficiency levels detailed in the core placement letter.

If the student chooses to enroll in an honors level class against the recommendation of the teacher or TAG Program Coordinator, the student and parent must complete the Core Placement Appeal Form to be signed by the student and parent in order to have the appeal reviewed by the TAG Program Coordinator and the appropriate academic department chair.

Advanced Placement Courses

Advanced Placement Courses are offered at Discovery Canyon where there is not a parody with an existing International Baccalaureate Course. The Advanced Placement (AP) program is a national program offered in cooperation with the College Board. At the conclusion of the AP course, students are expected to take a College Board National AP Exam administered on a national test date. Depending on scores, a student may receive college credit for AP classes. *Although earning credit is one possible benefit of taking an AP class, it is secondary to the primary purpose of offering a rigorous college-like experience and meaningful engagement with the content that will benefit students in their post-secondary academic endeavors.* Acceptance of AP scores for college credit is determined by each college or university. *It is the student's responsibility to research policies at individual institutions regarding AP credit.*

AP courses are intended to meet the needs of students seeking in-depth acceleration of curricular content. Because AP courses offer a college-level curriculum, **they are more demanding than a**

standard high school honors courses. While AP courses have the academic rigor of a college program and reward achievement, they also provide greater opportunities to master a subject and to explore it in greater depth. Students who enroll in AP courses must be *highly motivated and willing to work responsibly* to develop analytical reasoning skills and disciplined work habits. AP courses exceed the minimum state standards for core content areas and have received District 20 approval to receive weighted credit.

The AP Exam:

All students enrolled in an AP class are expected to pay the exam fee in the fall semester and take the National AP Exam. This exam fee is set by the College Board and is subject to annual increases. The AP exam fee is \$105.00. Financial assistance is available to families who meet specific economic hardship standards. The exam must be taken on the date published by College Board.

AP Enrollment:

All students considering AP level courses should carefully consider his/her level of preparation and commitment to the content area. Likewise, students should discuss all options with parents and teachers.

The successful AP student must:

- Possess the prerequisite skills, work ethic, and attitudes necessary for success at the AP level;
- Make a conscious decision to commit to the college level academic rigor required in an AP course;
- Display past and current academic performance in the above average range; (If there are any questions about these skills, the student's current teacher is the best source of information in helping to make this important decision.)

For more information, please visit the College Board/AP at <http://apstudent.collegeboard.org>.

SCHEDULING

The staff at DCCHS makes every effort to create a comprehensive master schedule designed to fit students' academic needs. Each semester all Freshmen and Sophomores must carry seven full credit bearing classes plus a ThunderTime. Juniors and Seniors must carry at least six full credit bearing classes plus ThunderTime. These classes must be taken through ASD20 and not outside agencies or credit recovery. During the second semester, students receive assistance from counselors and classroom teachers in requesting classes for the following year. The master schedule is built based upon student requests, staffing limitations, and overall course offerings.

Developing student responsibility is a goal that helps guide educational decision-making. Since students have the opportunity to request most of their classes and have developed a Plan of Study in his or her Individual Career/Academic Plan, it is expected that they will give careful consideration to this process and be responsible for the decisions they make during the registration process. Students need to consider their alternate requests carefully; these are taken into consideration when building their schedules.

Students, Parents, Teachers, and Counselors are available during the scheduling window in the spring to aid students in selecting the most rigorous and appropriate coursework available to each student. Students and families will create course requests through the Academic Planner in Infinite Campus. More detailed information about this process will come via email. We do our best to honor course requests and fill classes, sections, and teachers based upon these requests. Because of this, there will be NO Schedule changes unless the student meets one of the criteria detailed below.

Schedule Changes

If you do not have a full schedule or you have been misplaced in a class, please see your counselor immediately.

Changes are made for the following reasons only:

- Not enough classes (less than 7 classes).
- Failed prerequisite for a course.
- Educationally misplaced.
- Change Study Hall to Attendance Waiver or Teacher Assistant.

After the fifth day, a discussion must be had between student and teacher and fill out the "Schedule Change Request" form. Students must attend the classes that appear on their original schedule until the changes are complete in Infinite Campus.

REMEMBER: Changes are **NOT** guaranteed or final until your counselor approves them and officially changes your schedule, in Infinite Campus.

Examples of **UNACCEPTABLE** change requests include:

Requests for teacher change
Being in a class with friends
Changing the class to a different block
Elective changes
Year-long classes at semester

Withdrawing From a Course

A student may withdraw from a course during the first 5 school days of the semester without penalty. After the 20th day, a student will receive a No Credit (NC) or a Withdrawal/Failure (WF). To receive a NC, it requires approval from the teacher, the counselor and the administrator. If a WF is given, a letter grade of “F” will be calculated in the cumulative grade point average.

Student Classification

Students are classified as following:

1st Year in High School	Freshman	DCCHS is a four-year high school. Graduation requirements are based on the year they enter high school and assume a four year progression. Semester course = 1 credit Year-long course = 2 credits Teacher Assistants = .5 per semester
2nd Year in High School	Sophomore	
3rd Year in High School	Junior	
4th Year and 34 or more credits	Senior*	

In order to be eligible for participation in commencement ceremonies, students must complete all graduation requirements detailed previously in this guide.

Only selected courses may be repeated for credit. Refer to the course descriptions and/or contact your counselor. If a student chooses to repeat a course, the grade earned will be averaged into the Cumulative Grade Point Average. Both grades will be displayed on the student’s transcript.

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 twelfth grade. Grade point averages are calculated using courses taken in ninth, tenth, eleventh, and twelfth grades. A student’s record includes grade point average, courses completed, and state mandated standardized test results. A request for an official transcript requires a minimum of 5 days for processing. Students must allow at least two weeks lead time for a counselor recommendation letter.

Statements of Discipline: Upon request, DCC reports to colleges all suspensions and expulsions. Note: DCC High School students are asked to waive their right to see counselor and teacher recommendation letters.

Class Rank Policy

DCCHS will not rank students, but will maintain a GPA distribution chart. Decile rank is determined by deciles; that is, groups of ten percent of the senior class. With a senior class of 300 students for example, the first decile includes approximately the top 30 student GPAs. The second decile contains the next ten percent, and so forth. Decile ranking will be provided upon request for university or scholarship purposes. Detailed ranking will be reported directly to universities or scholarship organizations that request specific percentages.

Academic Honor Roll and Letters

Each student (9 –12) earns Principal’s Honor Roll recognition through the academic year if he/she earns a weighted semester GPA of 3.5 to 3.74999. Students will receive a certificate from the principal and acknowledgement at our Academic Awards Assembly.

Upon graduation, students will be recognized for their academic achievements using set criteria. Using their cumulative weighted GPAs, students may receive the following honors:

SUMMA CUM LAUDE GPA (Highest Honors) 4.50 and above
MAGNA CUM LAUDE GPA 4.00-4.49
CUM LAUDE GPA 3.75-3.99

Each student who achieves a weighted GPA of 3.75 or higher for the semester will also receive an Academic Letter. The purpose of the Academic Letter is to recognize students who have excelled academically while attending DCC grades 9-12. Any DCC student who is enrolled in at least six courses of study (three of which must be core academic classes) and earning a 3.75 grade point for that semester is eligible. The grade point average is determined by dividing the total points earned by the total number of credits.

Academic Letters will be awarded the first time that a student earns a 3.75 grade point average. The student will receive a DCC Chenille Letter and a torch of knowledge. Additional bars will be awarded to that student for every time the student earns a 3.75 or above grade point average. If a student earns a 3.75 cumulative grade point average over all eight semesters in which they attend DCC, the student will receive a gold star.

Academic Hall of Fame

The DCC Academic Hall of Fame will honor seniors who have earned Academic Distinction while attending DCC High School.

The following criteria will be used to determine which students are eligible for consideration:

- Students must meet the requirements for *Most Demanding* * curriculum at DCC
- Students must have attended DCC for at least two years.
- Students must have earned a GPA of 4.3 or higher while in attendance at DCC
- Students must have an ACT or SAT score in the 90th percentile.
- Academically based awards, scholarships and other distinctions earned while at DCC

*Most demanding curriculum

- Take FIVE year-long IB core** or AP core** academic COURSES both the junior and senior year
- World Language level 3 as a junior will count as one of the five core classes needed above
- Some college core classes will be considered as one of the five (i.e., Calculus 2 & Differential Equations)

**Core academic courses are in English, Language Acquisition, Individuals & Societies, Science and Math

DISCOVERY CANYON CAMPUS COURSE OFFERINGS

2023-2024

Course Guide Symbols

Courses listed may NOT be repeated for credit unless notated by an ®

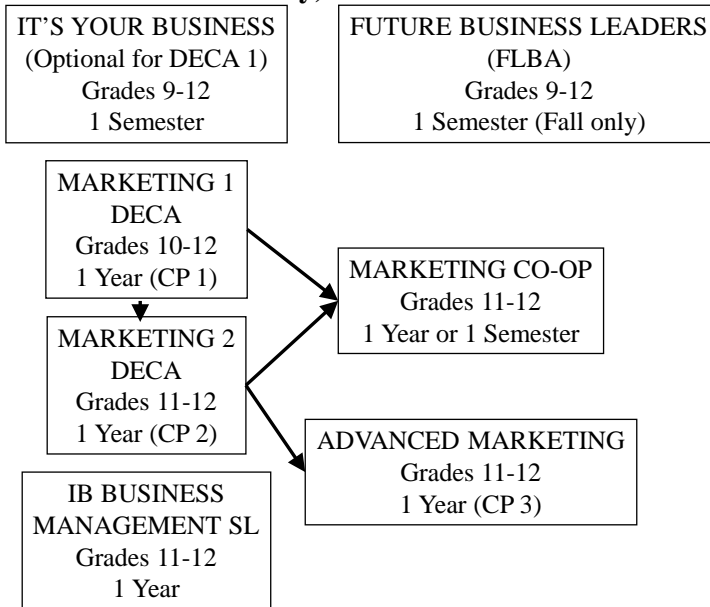
Weighted courses are noted by an *

NCAA approved courses are denoted by an *N*

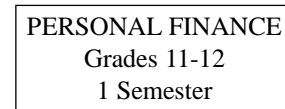
BUSINESS

Overview of Courses

Business/Marketing (Offered as a CP Pathway)



Finance



Course Descriptions

IT'S YOUR BUSINESS: AN INTRODUCTION

Course # 030005

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: None

This course introduces the student to the world of business, an area that affects each of us. Topics will include basic economics, credit, banking, marketing, insurance, consumerism, income tax, entrepreneurship, careers, and the stock market.

FUTURE BUSINESS LEADERS (FBLA)

Course # 034900

Grades 9-12

Prerequisite: None

Length of Course: 1 Semester (Fall only)

Course fee and materials: \$55.00

Students will enhance their knowledge of concepts relating to personal finance, business management, marketing, accounting, economics, ethics, and technology and presentation skills. Students will participate in Future Business Leaders of America (FBLA) activities.

MARKETING 1/DECA

Course # 040000 A/B

Grades 10-12

Prerequisite: None

Length of Course: 1 year

Year 1 of 3-year pathway for Career-related Programme

Course fee and materials: \$70.00 DECA Local/State/National Dues

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 2/DECA

Course # 040005 A/B

Grades 11-12

Prerequisite: Marketing 1

Length of Course: 1 year

Year 2 of 3-year pathway for Career-related Programme

Course fee and materials: \$70.00 DECA Local/State/National Dues

Students will increase knowledge and proficiency in the areas introduced in previous marketing courses.

ADVANCED MARKETING/DECA

Course # 040010 A/B

Grades 11-12

Prerequisite: Marketing 2

Length of Course: 1 year

Year 3 of 3-year pathway for Career-related Programme

Course fee and materials: \$70.00 DECA Local/State/National Dues

Students will continue to build upon knowledge and skills learned in previous marketing courses.

MARKETING CO-OP (ON THE JOB TRAINING) ®

Course # 040055 A/B

Grades 11-12

Prerequisite: Must be concurrently enrolled in a marketing course/ Teacher approval

Length of Course: 1 semester or 1 year

Course fee and materials: None

Students will learn job-related skills via on-the-job training in a marketing related occupation.

***NOTE: This class is for employees of Canyon Cafe (Discovery Canyon's School Based Enterprise). Canyon Cafe applications are located on the DCC High School website:**

<https://docs.google.com/forms/d/e/1FAIpQLScOqwwZGQG0sIuizoSiS-m72dxCxOr7vm-KuvzwfQRRJL0ORw/viewform>

IB BUSINESS & MANAGEMENT SL *

Course # 034620 A/B

Grades 11-12

Prerequisite: None

Length of Course: 1 year

Course fee and materials: None.

Optional opt-in registration for DECA (\$70.00) and/or FBLA (\$55.00)

IB Assessment fee: \$124.00

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.

PERSONAL FINANCE

Course # 153015

Grades 11-12

Prerequisite: None

Length of Course: 1 semester

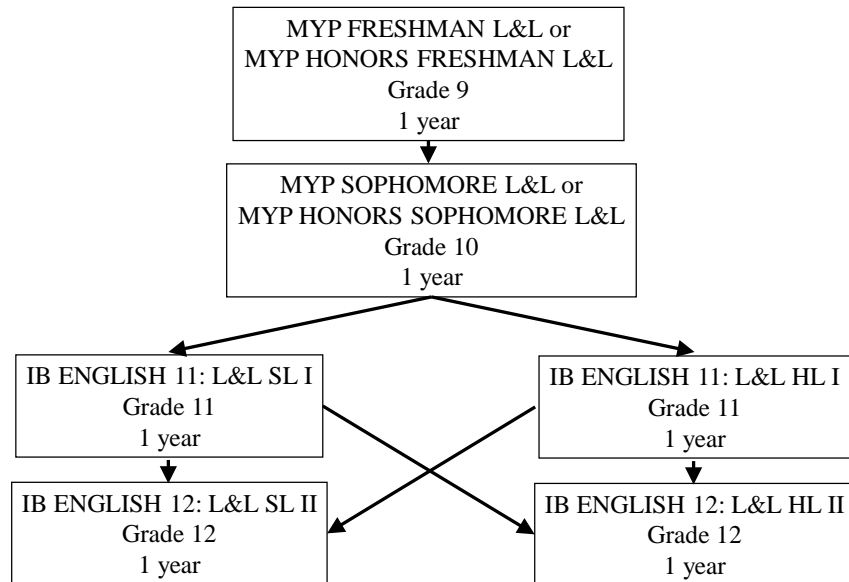
Course fee and materials: \$45.00

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.

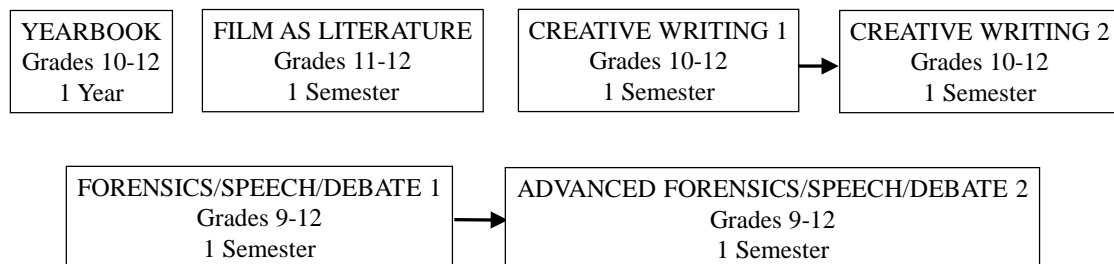
LANGUAGE & LITERATURE

Overview of Courses

Courses for English Credit



Language & Literature Elective Courses



English Credit Course Descriptions

MYP FRESHMAN LANGUAGE & LITERATURE N

Course # 050051 A/B

Grade 9

Prerequisite: None

Length of Course: 1 year

Course fee and materials: Students are expected to provide their own copies of the anchor texts.

If you are unable to obtain a copy, please speak to your teacher.

MYP Language and Literature focuses on developing recognition of types of text and improving communication skills through reading, writing, listening, and speaking. Additionally, teachers use the IB/MYP aims and objectives along with the Learner Profile. This course also cultivates research skills to develop critical thinking skills across many types of media. Global Contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet. Anchor texts: *Lord of the Flies* by William Golding; *American Born Chinese* by Gene Luen Yang; *The Odyssey* by Homer; and *House on Mango Street* by Sandra Cisneros.

MYP HONORS FRESHMAN LANGUAGE & LITERATURE N *

Course # 050049 A/B

Grade 9

Prerequisite: (Link to [Course Placement Requirements](#))

Length of Course: 1 year

Course fee and materials: Students are expected to provide their own copies of the anchor texts.

If you are unable to obtain a copy, please speak to your teacher.

MYP Language and Literature focuses on developing recognition of types of text and improving communication skills through reading, writing, listening, and speaking. Additionally, teachers use the IB/MYP aims and objectives along with the Learner Profile. This course also cultivates research skills to develop critical thinking skills across many types of media. Global Contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet. Honors Freshman Language and Literature will include additional texts, faster pacing, and more rigorous assessments. Anchor texts: *Lord of the Flies* by William Golding; *American Born Chinese* by Gene Luen Yang; *The Odyssey* by Homer; and *House on Mango Street* by Sandra Cisneros.

MYP SOPHOMORE LANGUAGE & LITERATURE N

Course # 050056 A/B

Grade 10

Prerequisite: Freshman Language & Literature

Length of Course: 1 year

Course fee and materials: Students are expected to provide their own copies of the anchor texts.

If you are unable to obtain a copy, please speak to your teacher.

MYP Language and Literature focuses on developing recognition of types of text and improving communication skills through reading, writing, listening, and speaking. Additionally, teachers use the IB/MYP aims and objectives along with the Learner Profile. This course also cultivates research skills to develop critical thinking skills across many types of media. Global Contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet. Year 5 continues to build students' analytical skills through a further

reading of classic and contemporary literature. Anchor texts: *The Glass Castle* by Jeannette Walls; *Fahrenheit 451* by Ray Bradbury; *The Curious Incident of the Dog in the Night-Time* by Mark Haddon; and *Fences* by August Wilson.

MYP HONORS SOPHOMORE LANGUAGE & LITERATURE N *

Course # 050059 A/B

Grade 10

Prerequisite: Recommendation of current instructor

Length of Course: 1 year

Course fee and materials: Students are expected to provide their own copies of the anchor texts. If you are unable to obtain a copy, please speak to your teacher.

MYP Language and Literature focuses on developing recognition of types of text and improving communication skills through reading, writing, listening, and speaking. Additionally, teachers use the IB/MYP aims and objectives along with the Learner Profile. This course also cultivates research skills to develop critical thinking skills across many types of media. Global Contexts direct learning toward independent and shared inquiry into our common humanity and shared guardianship of the planet. Year 5 continues to build students' analytical skills through a further reading of classic and contemporary literature. Honors Sophomore Language and Literature will include additional text, faster pacing, and more rigorous assessments. Anchor texts: *The Glass Castle* by Jeannette Walls; *Fahrenheit 451* by Ray Bradbury; *The Curious Incident of the Dog in the Night-Time* by Mark Haddon; and *Fences* by August Wilson.

IB ENGLISH 11: LANGUAGE & LITERATURE SL I/HL I N *

Course # 051900 A/B SL I

Course # 050040 A/B HL I

Grade 11

Prerequisite: MYP Sophomore Literature & Composition

Length of Course: 1 year

Course fees and materials: Students are expected to provide their own copies of the anchor texts. If you are unable to obtain a copy, please speak to your teacher.

IB Assessment fee: none

This course aims to develop skills of textual analysis and the understanding that texts, both literary and non-literary, can relate to culturally determined reading practices, and to encourage students to question the meaning generated by language and texts. An understanding of the ways in which formal elements are used to create meaning in a text is combined with an exploration of how that meaning is affected by reading practices that are culturally defined and by the circumstances of production and reception. Helping students to focus closely on the language of studied texts and to become aware of the role of wider context in shaping meaning is central to the course. The study of literature in translation from other cultures is especially important to IB students because it contributes to a global perspective. Texts are chosen from a variety of sources, genres and media. Students will take their IB English internal assessments at the end of the first year. See below for assessment details. Anchor literary texts: *Maus* by Art Spiegelman; *Othello* by William Shakespeare; *Station Eleven* by Emily St. John Mandel; *The Absolutely True Diary of a Part-Time Indian* (HL only). Non-literary bodies of work may differ between SL & HL.

IB ENGLISH 12: LANGUAGE & LITERATURE SL II/HL II N *

Course # 051903 A/B SL II

Course # 050045 A/B HL II

Grade 12

Prerequisite: IB English 11 A: Language and Literature HL I or SL I

Length of Course: 1 year

Course fee and materials: Students are expected to provide their own copies of the anchor texts.

If you are unable to obtain a copy, please speak to your teacher.

IB Assessment fee: \$124.00

This is the second of the two-year IB Language & Literature course. Students will continue the IB study topics and prepare for the IB SL/HL Language & Literature exam. Students will take their IB English exam at the end of the second year. 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 curriculum. See below for assessment details. Anchor literary texts: *Persepolis: The Story of a Childhood* by Marjane Satrapi; *Binti* by Nnedi Okorafor; *One Day in the Life of Ivan Denisovich* by Aleksander Solzhenitsyn; *Persepolis 2: The Story of a Return* (HL only). Non-literary bodies of work may differ between SL & HL.

Assessments for SL:

Individual oral: Supported by an extract from one non-literary text and one from a literary work, students will offer a prepared response of 10 minutes, followed by 5 minutes of questions by the teacher, to the following prompt: Examine the ways in which the global issue of your choice is presented through the content and form of two of the texts that you have studied. (40 marks); end of junior year.

Paper 1: Guided textual analysis (1 hour 15 minutes); The paper consists of two non-literary passages, from two different text types, each accompanied by a question. Students choose one passage and write an analysis of it. (20 marks); end of senior year.

Paper 2: Comparative essay (1 hour 45 minutes); The paper consists of four general questions. In response to one question students write a comparative essay based on two works studied in the course. (30 marks); end of senior year.

Assessments for HL:

Individual oral: Supported by an extract from both one non-literary text and one from a literary work, students will offer a prepared response of 10 minutes, followed by 5 minutes of questions by the teacher, to the following prompt: Examine the ways in which the global issue of your choice is presented through the content and form of two of the works that you have studied. (40 marks); end of junior year.

HL essay: Students submit an essay on one non-literary text or a collection of non-literary texts by one same author, or a literary text or work studied during the course. (20 marks). The essay must be 1,200-1,500 words in length; end of junior and senior year.

Paper 1: Guided textual analysis (2 hours 15 minutes); The paper consists of two non-literary passages, from two different text types, each accompanied by a question. Students write an analysis of each of the passages. (40 marks); end of senior year.

Paper 2: Comparative essay (1 hour 45 minutes); The paper consists of four general questions. In response to one question students write a comparative essay based on two works studied in the course. (30 marks); end of senior year.

Language & Literature Elective Course Descriptions

FILM AS LITERATURE

Course # 053900

Grades 11-12

Prerequisite: Parent permission slip, rated “R” movies

Length of Course: 1 semester

Course fee and materials: None

Through this course, students will analyze film as a record of human experience while focusing on the literary elements inherent in the film genre. Film as Literature will focus on analyzing films adapted from literary works as well as films from original screenplays. Students will analyze films for theme, plot, characterization, symbolism, and other literary aspects just as they would a written work. Students will write analytical essays about the works. This course does not count as an English credit but is a core elective.

CREATIVE WRITING 1 N

Course # 054200

Grades 11-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: Book list will be provided by the instructor on the first day of class.

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. This course does not count as an English credit but is a core elective.

CREATIVE WRITING 2 N

Course # 054205

Grades 11-12

Prerequisite: Creative Writing 1 or instructor approval

Length of Course: 1 semester

Course fee and materials: Book list will be provided by instructor on the first day of class.

This course is for students to continue to develop and advance existing creative writing skills with an emphasis on publication. Techniques of writing and publishing (to include design, layout, and illustrations) will be addressed. Emphasis will be on maintaining portfolio and on preparing selected pieces for publication. Students in creative writing 2 will produce a literary magazine. Creative Writing 2 students will be expected to mentor students enrolled in creative writing 1 (classes meet concurrently). This course does not count as an English credit but is a core elective.

YEARBOOK ®

Course # 054900 A/B

Grades 10-12

Prerequisite: Application (available from Ms. Rathmann)

Length of Course: 1 year

Course fee and materials: Information provided by instructor upon acceptance to course.

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 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. This course does not count as an English credit, but it is a core elective.

FORENSICS/SPEECH/DEBATE 1 ® N

Course # 055100

Grades 9-12

Prerequisite: None

Length of course: 1 semester

Course fee and materials: None (Optional Forensics/Debate team registration: \$100.00)

This course is designed for the seriously competitive speech student. It stresses participation for forensic competition in the following events: original oratory, debate, extemporaneous speaking, congress, and interpretation of drama, poetry and humor. This course does not count as an English credit but is a core elective.

Note: Forensic/Speech/Debate 1 students are strongly encouraged to participate as members of the speech and debate team, which involves after school and weekend practices/competitions.

ADVANCED FORENSICS/SPEECH/DEBATE 2 ® N

Course # 055105

Grades 10-12

Prerequisite: Forensics/Speech/Debate 1

Length of course: 1 semester

Course fee and materials: None (Optional Forensics/Debate team registration: \$100.00)

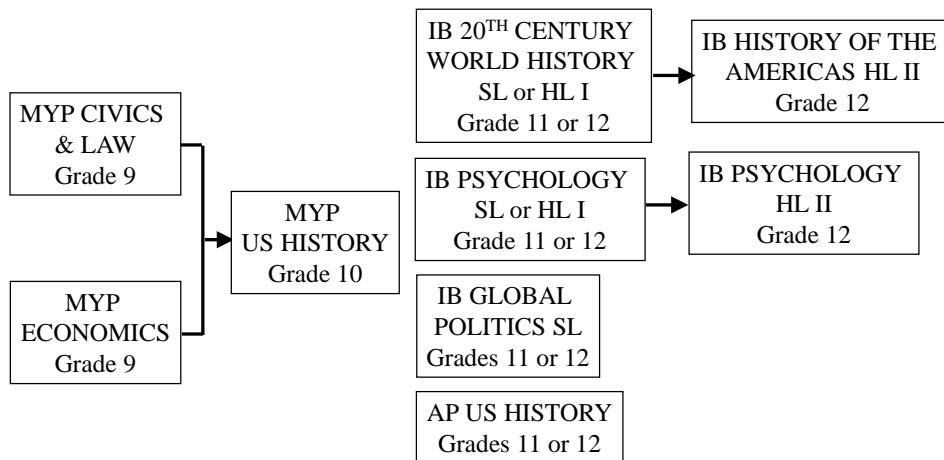
This course is a continuation of Forensics 1 and is designed for the seriously competitive speech student. It stresses participation for forensic competition in original oratory, extemporaneous speaking, congress, and debate. This course does not count as an English credit but is a core elective.

Notes: Students enrolled in Advanced Forensics/Speech/Debate 2 will be expected to compete competitively as part of the speech and debate team, which involves after school and weekend practices/competitions. Forensics/Speech/Debate 2 students will also be expected to mentor Forensics/Speech/Debate 1 students (classes meet concurrently).

INDIVIDUALS & SOCIETIES

Overview of Courses

Individuals & Societies Courses



Course Descriptions

MYP CIVICS AND LAW N

Course # 157112

Grade 9

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: None

MYP 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.

MYP ECONOMICS N

Course # 153003

Grade 9

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: None

MYP Economics studies the basic concepts of scarcity, opportunity cost, economic systems, and supply/demand. Topics covered include an understanding of the basic economic information distributed by mainstream media such as the unemployment rate, gross domestic product, inflation rate, monetary and fiscal policy, and how the economic decisions made by individuals, governments, and businesses impact members of society.

MYP US HISTORY N**Course # 155530 A/B**

Grade 10-11

Prerequisite: None

Length of Course: 1 year

Course fee and materials: None

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.

IB 20TH CENTURY WORLD HISTORY N ***Course # 155902 A/B SL****Course # 155903 A/B HL**

Grades 11-12 Prerequisite: None

Length of Course: 1 year

Course fee and materials: None

SL IB Assessment fee: \$124.00

SL: This course is offered for IB Diploma candidates taking History at the standard level for group three. Candidates will take examinations on the following: (1) Prescribed Subject on “Peacemaking, peacekeeping- international relations 1918-36” or (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". All candidates will be required to complete an Internal Assessment (a.k.a. Historical Investigation) of 1500-2000 words.

HL: This course is offered for IB Diploma candidates as one of two courses in Higher Level History. 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""". Candidates will also take a regional exam on American, Asian or European history. All candidates will be required to complete an Internal Assessment (a.k.a. Historical Investigation) of 1500-2000 words.

IB HISTORY OF THE AMERICAS N ***Course # 155101 A/B HL**

Grade 12

Prerequisite: IB 20th Century World History (HL or SL)

Course fee and materials: None

HL IB Assessment fee: \$124.00

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 class satisfies the district US History course requirement.

IB GLOBAL POLITICS SL N *

Course # 157320 A/B

Grades 11-12

Prerequisite: None

Course fee and materials: None

IB Assessment fee: \$124.00

The global politics course explores fundamental political concepts such as power, liberty, and equality, in a range of contexts and at a variety of levels. Students will develop an understanding of the local, national, international and global dimensions of political activity, and explore relevant political issues.

IB PSYCHOLOGY N *

Course # 158011 A/B SL

Grades 11-12

Course # 158012 A/B HL I

Grade 11

Course # 158013 A/B HL II

Grade 12

Prerequisite: None

Course fee and materials: Read book list with cost.

IB Assessment fee: \$124.00

IB Psychology SL 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 Psychology HL I is the first of two years of study in the International Baccalaureate Higher Level Psychology program. This course includes an in-depth study of individual human behavior and mental processes. In two years of study, students will examine the historical development of psychology, the different theoretical approaches to understanding behavior, the effects of perception on human behavior, effects of biological influences on behavior, and methods of scientific psychological inquiry. Students will also explore two optional topics.

IB Psychology Higher II is the second year of the Diploma level course. Students will continue the HL study topics and prepare for the IB HL Psychology exam.

ADVANCED PLACEMENT US HISTORY N *

Course # 155525 A/B

Grades 11-12

Prerequisite: MYP US History

Length of Course: 1 year

Course fee and materials: None

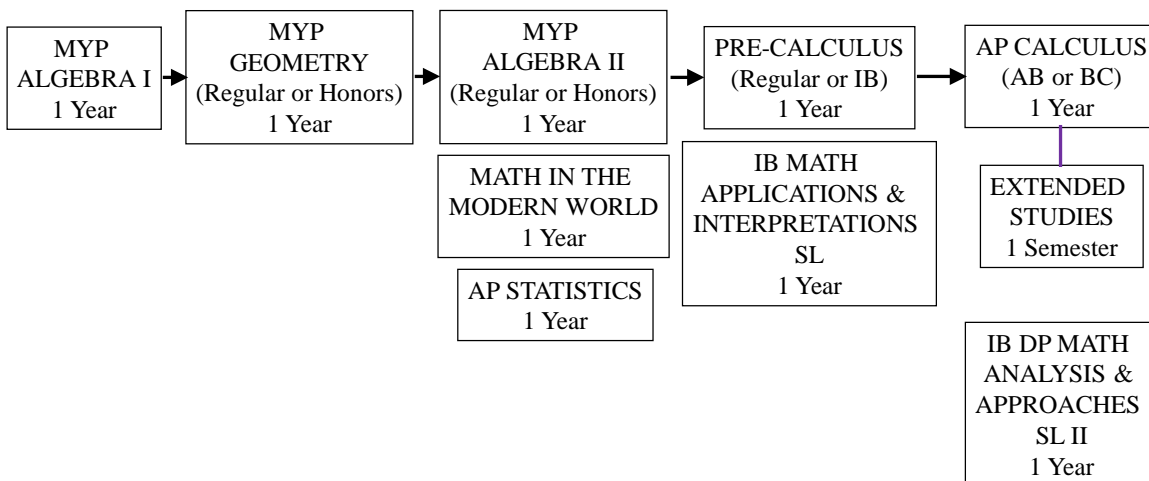
Exam fee: \$105.00

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.

MATH

Overview of Courses

Math Courses



— Concurrent enrollment in AP Calculus BC required.

Course Descriptions

MYP ALGEBRA 1 N

Course # 111102 A/B

Grades 9-12

Prerequisite: None

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

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 N

Course # 116025 A/B

Grades 9-12

Prerequisite: Algebra 1

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

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. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice.

MYP HONORS GEOMETRY N *

Course # 116021 A/B

Grade 9-10

Prerequisite: Algebra 1 (Link to [Course Placement Requirements](#))

Length of Course: 2 semesters/ 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

MYP Honors Geometry covers topics in two-dimensional and three-dimensional figures including lines, planes, angles, polygons, coordinate geometry, circles and polyhedrons. Topics integrate algebraic concepts and use inductive and deductive reasoning to develop geometric proofs. Problems are linked to real world applications with an emphasis on graphing, vocabulary, and technical writing. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice.

ALGEBRA 2 N

Course # 111200 A/B

Grades 9-12

Prerequisite: Algebra 1 & Geometry

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

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.

HONORS ALGEBRA 2 N *

Course # 111205 A/B

Grades 9-12

Prerequisite: Algebra 1 & Geometry (Link to [Course Placement Requirements](#))

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

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. Strong performance in pre-requisite courses is essential to meet the increased expectations.

IB DP MATH APPLICATIONS AND INTERPRETATIONS SL N ***Course # 110037 A/B**

Grades 11-12

Prerequisite: Algebra 2

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

IB Assessment fee: \$124.00

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.

IB PRE-CALCULUS SL I N ***Course # 110052 A/B**

Grades 9-12

Prerequisite: Algebra 2

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

IB Assessment fee: none

This is the first year of a two-year IB mathematics course. Topics that are covered include: functions and equations; sequences and series; exponentials and logarithms; graphing and transforming functions; quadratic equations and functions; polynomials; binomial expansions; unit circle calculations, radian measures, and advanced trigonometric principles; vectors and introductory calculus.

PRE-CALCULUS N**Course # 113000 A/B**

Grades 10-12

Prerequisite: Algebra 2

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

Pre-Calculus builds upon topics covered in Algebra 2 and Functions and Statistics (FST). Additional topics include analytical geometry, vectors, polar coordinates, and introductory calculus. Problems are linked to real-world applications with an emphasis on graphing, vocabulary, and technical writing. This course is designed to prepare students for calculus and college mathematics.

IB DP MATH ANALYSIS AND APPROACHES SL II N ***Course # 110044 A/B**

Grades 11-12

Prerequisite: IB Pre-calculus Standard Level I or Pre-calculus

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

IB Assessment fee: \$124.00

This is the second year of a two-year IB Mathematics curriculum. This course extends the topics taught in IB Pre-Calculus and is designed for students who enjoy developing mathematical arguments, problem solving, and exploring real and abstract applications both with and without technology. Topics include vectors, differential calculus, integration, probability, statistical sampling techniques, statistical modeling, discrete and continuous random variables. The internally assessed component for Mathematics Applications and Interpretation SL 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). At the conclusion of this course, students will be prepared for and expected to take the Analysis and Approaches Standard Level Exam.

ADVANCED PLACEMENT CALCULUS AB N ***Course # 113100 A/B**

Grades 10-12

Prerequisite: Pre-Calculus or IB Pre-Calculus.

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

Exam fee: \$105.00

Advanced Placement Calculus AB builds upon algebraic and geometric principles covered in Pre-Calculus. Applications involve limits, differentiation, and integration tied to topics 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.

ADVANCED PLACEMENT CALCULUS BC N ***Course # 113200 A/B**

Grades 10-12

Prerequisite: IB Math Analysis and Approaches SL II, IB Pre-Calculus Standard Level I, or Pre-Calculus.

Co-requisite: Extended Studies for Advanced Math Learners

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus or TI N-Spire CX CAS).

Exam fee: \$105.00

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.

EXTENDED STUDIES FOR ADVANCED MATH LEARNERS *

Course # 110065 A/B

Grades 11-12

Co-requisite: Concurrently enrolled in Calculus BC.

Length of Course: semester (1 credit)

Course fee and materials: None

This course offers students additional topics and extensions that support students concurrently enrolled in Honors, Advanced Placement, and International Baccalaureate courses. Extended Studies for Advanced Math Learners will allow students to extend and apply core content classroom learning through additional course material and/or laboratory time.

MATH IN THE MODERN WORLD

Course # 112200 A/B

Grades 10-12

Prerequisite: Algebra 1 and Geometry

Length of Course: 1 year

Course fee and materials: Calculator

Students will use mathematics to make informed financial decisions in their personal and professional lives. Beyond the computational skills required to manage finances, students will explore topics such as decision-making with units, financial management, exponential growth, mathematical models, statistical modeling, apportionment in government and business decision-making, and discrete math.

ADVANCED PLACEMENT STATISTICS N *

Course # 117005 A/B

Grades 11-12

Prerequisite: Statistics, Algebra 2, or Pre-Calculus.

Length of Course: 1 year

Course fee and materials: Graphing Calculator (TI-84 or TI-84 plus).

Exam fee: \$105.00

Advanced Placement Statistics is a course that covers topics 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.

PERFORMING ARTS

MUSIC STUDIES

Overview of Courses

Music Studies Courses

BEGINNING MUSIC THEORY Grades 9-12 1 Semester

IB MUSIC SL Grades 11-12 1 Year

MUSIC APPRECIATION Grades 9-12 1 Semester

Course Descriptions

BEGINNING MUSIC THEORY

Course # 123000

Grades 9-12

Prerequisite: None.

Length of Course: 1 semester

Course fee and materials: \$35.00

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.

MUSIC APPRECIATION

Course # 127000

Grades 9-12

Prerequisite: None.

Length of Course: 1 semester

Course fee and materials: None

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's music evolved from the music of previous eras.

IB MUSIC SL

Course # 121001 A/B

Grades 11-12

Prerequisite: Demonstrated music literacy

Length of Course: 1 year

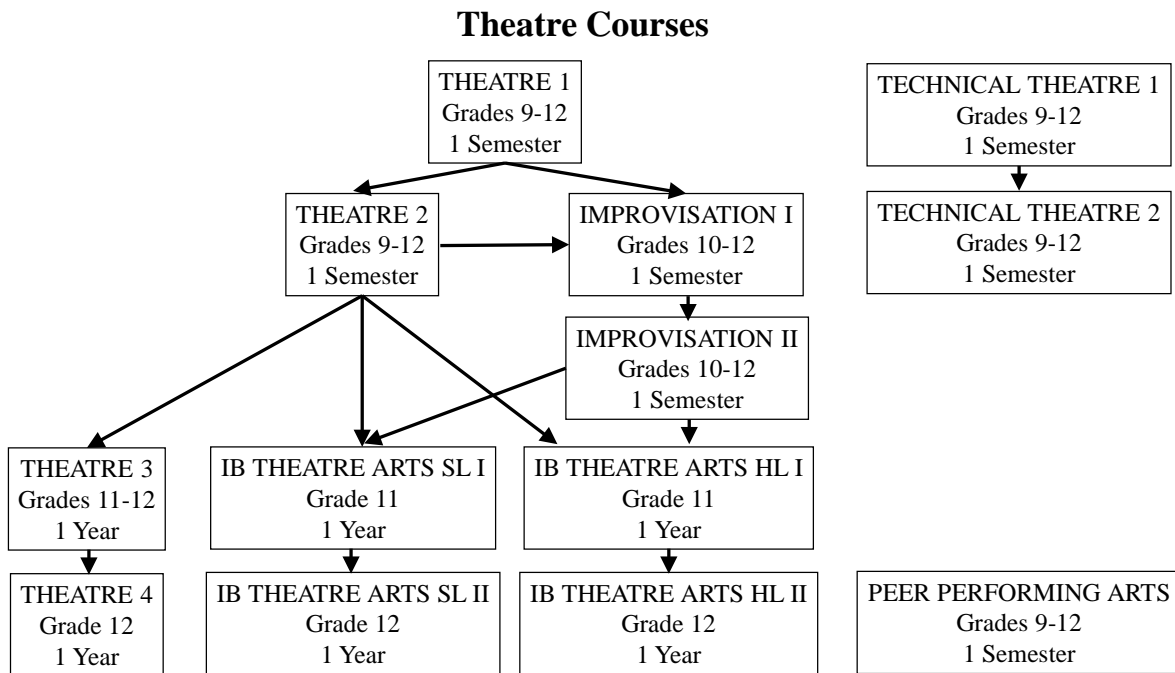
Course fee and materials: \$35.00, notebook, manuscript papers

IB Assessment fee: \$124.00

This course is designed for the musically motivated student who would like to study music at the Standard Level in the IB. It offers students the opportunity to build on prior experience in music while encouraging a broad approach to the subject and developing new skills, techniques and ideas. Through the study of musical concepts, students will gain appreciation of other cultures and time periods, develop their aural perception and increase their understanding of music. The Internal assessment (IA) is assessed by the teacher and externally moderated (reviewed) by the IB at the end of the course. External assessment is in the form of a listening paper and a musical links investigation. Students in Music SL will choose one of the following options - creating (SLC), solo performing (SLS) or group performing (SLG).

THEATRE

Overview of Courses



Course Descriptions

THEATRE 1

Course # 056625

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: None

Students will learn and apply fundamentals of theatre performance and production including lexicon/terms, improvisation and pantomime, voice control, character analysis, and stage movement and blocking.

THEATRE 2

Course # 056630

Grades 9-12

Prerequisite: Theatre 1

Length of Course: 1 semester

Course fee and materials: None

Students will increase their knowledge and skill in the areas of improvisation, pantomime, stage movement, characterization, and voice control. Students will be introduced to additional topics including stage directions, philosophies of blocking, and production critique.

THEATRE 3: ADVANCED ACTING

Course # 056635 A/B

Grades 11-12

Prerequisite: Theatre 1 and Theatre 2 OR instructor approval; Improv Recommended

Length of Course: 1 year

Course fee and materials: None

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 A/B

Grade 12

Prerequisite: Theatre 3 OR instructor approval; Improv Recommended

Length of Course: 1 year

Course fee and materials: None

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

IB THEATRE ARTS SL/ HL I *

Course # 056605 A/B SL

Course # 056610 A/B HL

Grade 11

Prerequisite: minimum one semester theater course or production experience

Length of Course: 1 year

Course fee and materials: None

IB Assessment fee: None

IB Theatre Arts SL I: This course is designed to meet the standard 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 required by the IB Programme. The IB-designed curriculum involves a discipline-based, integrated approach to theatre. Areas of emphasis are 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 more serious theatre arts student. For the IB candidate, completion of this course is considered preparation to sit for the standard level exam and serves as a sixth subject.

IB Theatre Arts HL I: 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 SL/ HL II *

Course # 056901 A/B SL II

Course # 056611 A/B HL II

Grade 12

Prerequisite: Successful completion of IB Theatre Arts Standard Level I.

Length of Course: 1 year

Course fee and materials: None

IB Assessment fee: \$124.00

IB Theatre Arts SL II: This course is the second year of a two-year IB Theatre SL course. It is designed to meet the standard level requirements of the IB Diploma and District 20 high school diploma. The IB-designed curriculum involves a discipline-based, integrated approach to theatre. Areas of emphasis are 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 more serious theatre arts student. For the IB candidate, completion of this course is considered preparation to sit for the standard level exam and serves as a sixth subject.

IB Theatre Arts HL II: 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.

PEER PERFORMING ARTS

Course # 129020

Grades 9-12

Prerequisite: None.

Length of Course: 1 semester

Course fee and materials: None

This course is designed for students who require individualized instruction in performing arts classes, which could include band, choir, dance, and/or theatre. Students will improve their creative skills through vocal and physical warmups, performance preparation, creative play, and other arts experiences. Students will focus on improving and maintaining arts skills and will develop an awareness for lifelong arts appreciation. Peer Partners will fully participate in all activities with their peers.

IMPROVISATION 1

Course # 056920

Grades 10-12

Prerequisite: Theatre 1

Length of Course: 1 semester

Course fee and materials: None

Students will be introduced to the fundamentals of improvisation. They will learn basic rules and the essentials of scenic improvisation, while developing listening and communication skills, and

the ability to think "on one's feet."

IMPROVISATION 2

Course # 056925

Grades 10-12

Prerequisite: Improvisation 1

Length of Course: 1 semester

Course fee and materials: None

Students will further develop mastery in the fundamentals of improvisation. Students will apply previously developed skills and techniques of improvisation to long form and storytelling. Students will gain additional skills in character development, play building, listening and teamwork.

TECHNICAL THEATER 1

Course # 056615

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: None

Students are introduced to the backstage operations of a theatre, and will gain foundational knowledge of the elements and requirements of stage management.

TECHNICAL THEATER 2

Course # 056620

Grades 9-12

Prerequisite: Technical Theatre 1

Length of Course: 1 semester

Course fee and materials: None

Students will apply techniques and skills learned in previous theatre courses, focusing on set constructions, sound and lighting design, costuming and props, and stage management.

VOCAL MUSIC

Overview of Courses

Vocal Music Courses

No-Audition Choirs

TENOR BASS CHOIR
Grades 9-12
1 Year

TREBLE CHOIR
Grades 9-12
1 Year

Audition Choirs

TREBLE ENSEMBLE
Grades 10-12
1 Year

CONCERT CHOIR
Grades 10-12
1 Year

CHAMBER SINGERS
Grades 11-12
1 Year

— Concurrent enrollment (In order to participate in Chamber Singers, a student must also be concurrently enrolled in Concert Choir.)

Course Descriptions

TENOR BASS CHOIR ®

Course # 124026

Grades 9-12

Prerequisite: None

Length of Course: 1 year

Course fee and materials: \$45.00

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.

***Notes: This group performs in school concerts and participates in CHSAA festivals. Participation in this yearlong course will permit a student to audition for upper-level vocal music courses: Concert Choir or Chamber Singers.**

TREBLE CHOIR ®

Course # 124041

Grades 9-12

Prerequisite: None

Length of Course: 1 year

Course fee and materials: \$45.00

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 choir.

***Notes: This group performs in school concerts and participates in CHSAA festivals. Participation in this yearlong course will permit a student to audition for upper-level vocal music courses: Treble Ensemble, Concert Choir, or Chamber Singers.**

TREBLE ENSEMBLE ®

Course # 124046 A/B

Grades 10-12

Prerequisite: 1 year of high school choir and an audition

Length of course: 1 year

Course fee and materials: \$45.00 plus required performance attire (approximately \$100.00)

Students in this advanced choir will focus on standard treble choir literature on an intermediate level. Students will develop vocal techniques while performing a variety of musical styles and literature. NOTE: This is an auditioned ensemble course.

***Notes: Participation in this yearlong course will permit a student to audition for upper-level vocal ensembles: Concert Choir, or Chamber Singers.**

CONCERT CHOIR ®

Course # 124010 A/B

Grades 10-12

Prerequisite: 1 year of high school choir and an audition

Length of Course: 1 year

Course fee and materials: \$45.00 plus required performance attire (approximately \$100.00)

This course is an audition 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.

***Notes: Many genres of music—including classical, pop, and jazz—will be a part of this varsity level choir's repertoire.**

CHAMBER SINGERS ®

Course # 124005 A/B

Grades 11-12

Prerequisite: 2 years of high school choir, an audition, and concurrent enrollment in Concert Choir

Length of Course: 1 year

Course fee and materials: \$45.00 plus required performance attire (approximately \$100.00).

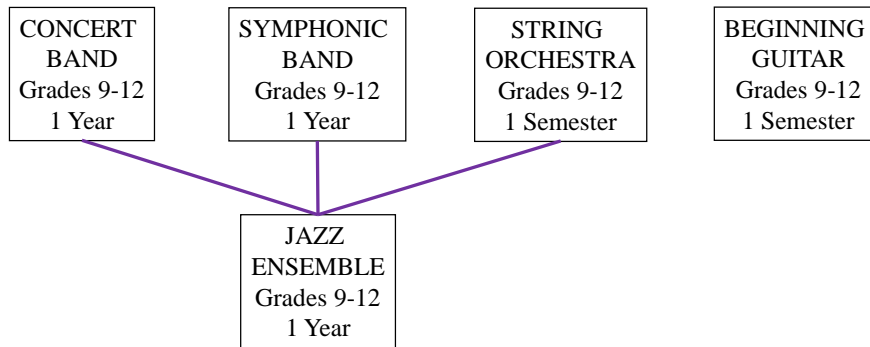
The Chamber Singers is a disciplined group that performs music from the Renaissance to challenging contemporary choral works. Dedication and commitment are an important part of this group. Chamber singers perform at school and community events as well as universities and state competitions. Students are asked to put in outside practice time. Students are required to purchase performance attire.

***Notes: Chamber singers requires 2 choir periods. This elite musical group will participate in several festivals and travel for performances. Many styles of music will be represented.**

INSTRUMENTAL MUSIC

Overview of Courses

Instrumental Music Courses



— Concurrent enrollment (In order to participate in Jazz Ensemble, a student must also be concurrently enrolled in Concert Band, Symphonic Band, or String Orchestra.)

Course Descriptions

CONCERT BAND ®

Course # 125015A/B

Grades 9-12

Prerequisite: Previous band experience recommended

Length of Course: 1 year

Course fee and materials: \$50.00 enrichment fee, \$50.00 school owned instrument rental fee per semester (where applicable), required performance attire (approximately \$80-\$100),

Method Books: Foundations for Superior Performance by Williams & King, and Essential Musicianship for Band Ensemble Concepts by Green, Benzer, and Bertman.

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.

***Notes: Students must take Concert Band A before taking Concert Band B, and students must be scheduled for both Concert Band A & B during the same period and with the same teacher in both Semester 1 and Semester 2.**

SYMPHONIC BAND ®

Course # 125055 A/B

Grades 9-12

Prerequisite: Audition

Length of Course: 1 year

Course fee and materials: \$50.00 enrichment fee, \$50.00 school owned instrument rental fee

(where applicable), tuxedo or gown (purchased through DCC).

Method Books: Foundations for Superior Performance by Williams & King, and Essential Musicianship for Band Ensemble Concepts by Green, Benzer, and Bertman.

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

STRING ORCHESTRA ®

Course # 125050 A/B

Grades 9-12

Prerequisite: Previous orchestra experience recommended

Length of Course: 1 year

Course fee and materials: \$50.00 enrichment fee, \$50.00 school owned instrument rental fee per semester (where applicable), required performance attire (approximately \$80-\$100),

Method Book: Expressive Techniques for Orchestra by Brungard, Alexander, Dackow, and Anderson, and Bach and Before for Strings by Newell.

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.

BEGINNING GUITAR

Course # 125000

Grades 9-12 Prerequisite: None

Length of Course: 1 semester

Course fee and materials: \$35.00, notebook, manuscript papers, and acoustic guitar.

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.

JAZZ ENSEMBLE ®

Course # 125035 A/B

Grades 9-12

Prerequisite: Must be concurrently enrolled in Concert Band, Symphonic Band or String Orchestra

Length of Course: 1 year

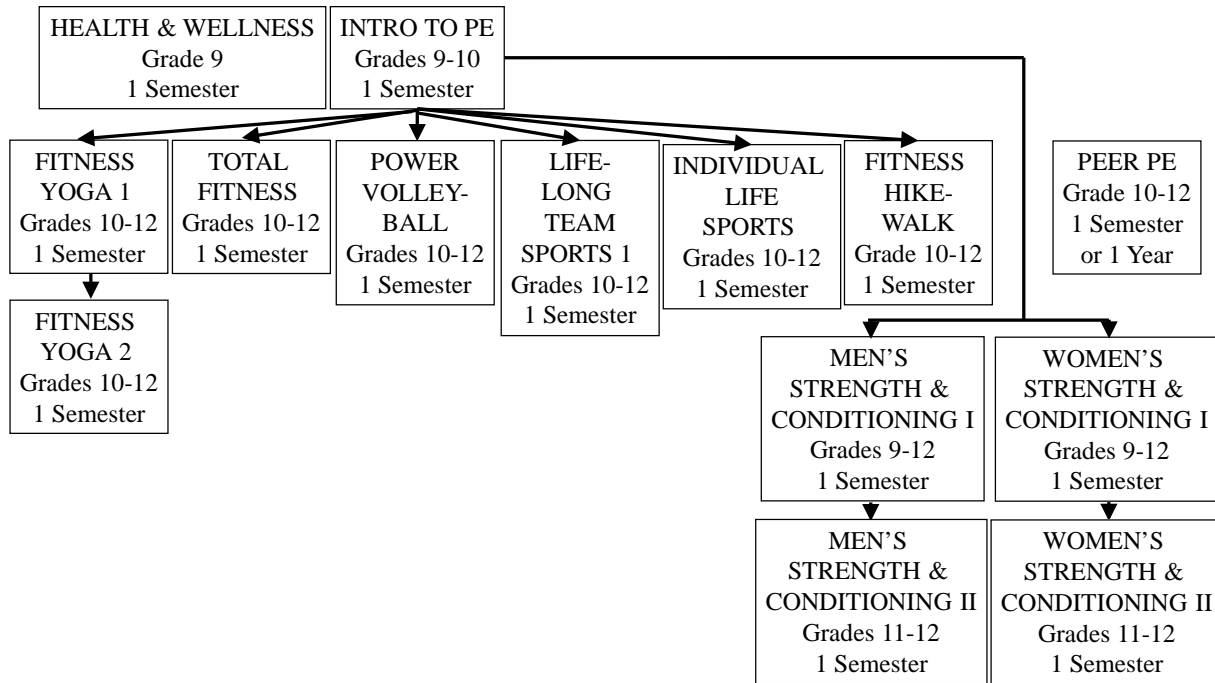
Course fee and materials: \$50.00 enrichment fee, \$50.00 school-owned instrument rental fee per semester (where applicable).

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.

***Notes: Instrumentation is that of the standard jazz big band – saxophone, trumpet, trombone, guitar, piano, bass, drum set.**

PHYSICAL EDUCATION

Overview of Courses



Course Descriptions

INTRODUCTION TO PHYSICAL EDUCATION

Course # 080000

Grades 9-10

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: PE Uniform (\$10.00)

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 activities on the introductory level. May not repeat this class.

HEALTH AND WELLNESS

Course # 081000

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: Optional CPR/First Aid fee \$30.00 (AHA Certified)

Health and Wellness or Modified Health and Wellness is a graduation requirement for Academy District 20 and is to be taken during the freshman year. Students will be introduced to the social, physical, mental and emotional aspects of healthy lifestyles. This course includes human sexuality.

PEER PE ®**Course # 083005**

Grades 10-12

Prerequisite: None

Length of Course: 1– 2 semester(s)

Course fee and materials: None

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 students.

FITNESS YOGA 1 ®**Course # 083015**

Grades 10-12

Prerequisite: Introduction to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: PE uniform (\$10.00), yoga mat (provided or can provide their own)

This class is for athletes as well as non-athletes. It will include the following activities: yoga, Pilates, walking, hiking, low impact aerobics, and relaxation.

FITNESS YOGA 2 ®**Course # 083016**

Grades 10-12

Prerequisite: Fitness Yoga 1

Length of Course: 1 semester

Course fee and materials: PE Uniform (\$10.00), Yoga mat, tennis shoes.

This is a continuing course for those students who have already successfully completed Fitness Yoga 1. In this course, students will continue their yoga practice as an extension from the knowledge base gained through the curriculum of Fitness Yoga 1. The course will focus on the development of transitions, balance, core strength, use of mantra, and use of meditation practices to enhance one's yoga practice.

TOTAL FITNESS ®**Course # 083205**

Grades 10-12

Prerequisite: Introduction to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: \$5.00 plus PE uniform (\$10.00)

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, fitball, and biking. This course is for students who just want to get fit. The emphasis will be on total body fitness to help students build strength, cardiovascular and self-esteem utilizing the weight room and aerobics room or other facilities that will improve the total health

of the students.

POWER VOLLEYBALL ®

Course # 083410

Grades: 10-12

Prerequisite: Intro to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: PE uniform (\$10.00)

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.

INDIVIDUAL LIFE SPORTS ®

Course # 083500

Grades 10-12

Prerequisite: Introduction to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: PE uniform (\$10.00)

This class places an emphasis on leisure time activities such as golf, bowling, cycling, tennis, racquet sports, skating, badminton, board games, weights, and personal fitness. Fees may be charged for optional field trips.

LIFELONG TEAM SPORTS 1 ®

Course # 083800

Grades 10-12

Prerequisite: Introduction to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: PE uniform (\$10.00)

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.

FITNESS HIKE-WALK ®

Course # 084410

Grades 10-12

Prerequisite: Introduction to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: PE uniform (\$10.00)

This course will develop students' aerobic fitness thorough analysis and practice of walking and hiking at the appropriate intensity and duration. Pre and post-course fitness levels will be assessed. Self-monitoring of the appropriate individualized intensity, frequency and duration of walking will be stressed utilizing a training journal in conjunction with class participation. Emphasis will be placed on stretching, conditioning exercises, proper clothing, injury prevention, and proper hiking etiquette.

MEN'S STRENGTH & CONDITIONING I

Course # 083236 (Fall)

Course # 083237 (Spring)

Grade 9-12 Prerequisite: Introduction to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: \$5.00, PE uniform (\$10.00)

This class will focus on developing the basic physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sports related injuries, and gaining an appreciation for lifelong fitness. The class will emphasize improving total body strength and power, speed, agility, flexibility and a general physical preparedness that will serve a wide variety of sports. Students will also learn basic weight room safety and be introduced to foundational training principles that will help them better understand proper program design. The class will utilize a variety of training methodologies including; basic free weights exercises, calisthenics, plyometrics, and teaching proper running mechanics. This class is only for D20 athletes. May not repeat for PE credit.

WOMEN'S STRENGTH & CONDITIONING I

Course # 083251 (Fall)

Course # 083252 (Spring)

Grade 9-12

Prerequisite: Introduction to Physical Education recommended

Length of Course: 1 semester

Course fee and materials: \$5.00, PE uniform (\$10.00)

This class 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 class will emphasize improving total body strength and power, speed, agility, flexibility and a general physical preparedness that will serve a wide variety of sports. Students will also learn basic weight room safety and be introduced to foundational training principles that will help them better understand proper program design. The class will utilize a variety of training methodologies including; basic free weights exercises, calisthenics, plyometrics, and teaching proper running mechanics. This class is only for D20 athletes. May not repeat for PE credit.

MEN'S STRENGTH & CONDITIONING II ®

Course # 083241 (Fall)

Course # 083242 (Spring)

Grade 10-12

Prerequisite: Men's Strength & Conditioning I

Length of Course: 1 semester

Course fee and materials: \$5.00, PE uniform (\$10.00)

This class 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 of how this will positively impact lifelong fitness. The class will emphasize improving total body strength and power, speed, agility, flexibility and a general physical preparedness that will serve a wide variety of sports. Students will also begin to explore more advanced training principles and the science behind proper program design. The class will utilize a variety of training methodologies in progression of complexity from those in Strength &

Conditioning I. This class is only for D20 athletes. May repeat for PE credit.

WOMEN'S STRENGTH & CONDITIONING II ®

Course # 083256 (Fall)

Course # 083257 (Spring)

Grade 10-12

Prerequisite: Women's Strength & Conditioning I

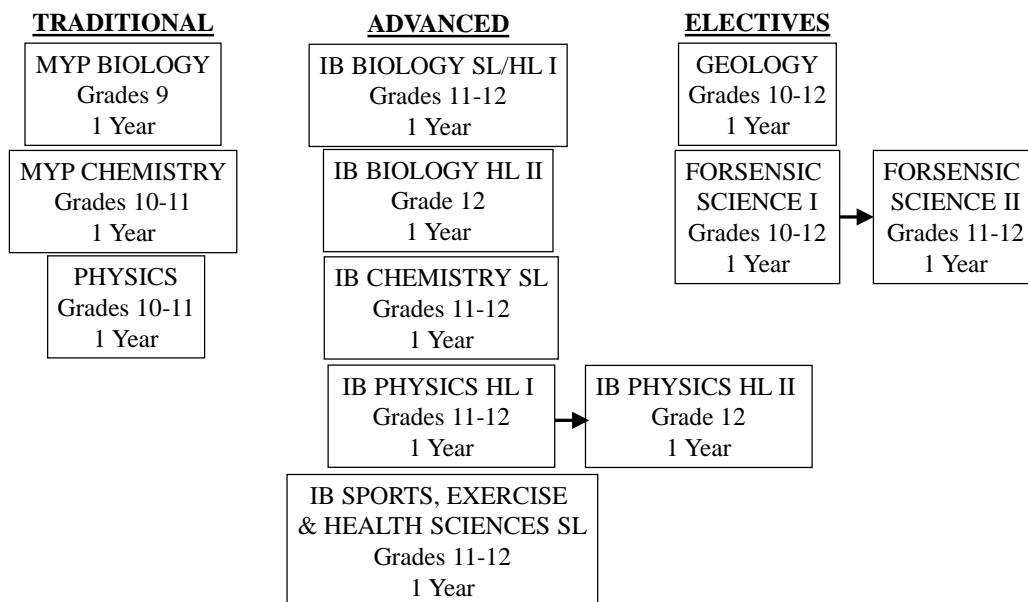
Length of Course: 1 semester

Course fee and materials: \$5.00, PE uniform (\$10.00)

This class 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 of how this will positively impact lifelong fitness. The class will emphasize improving total body strength and power, speed, agility, flexibility and a general physical preparedness that will serve a wide variety of sports. Students will also begin to explore more advanced training principles and the science behind proper program design. The class will utilize a variety of training methodologies in progression of complexity from those in Strength & Conditioning I. This class is only for D20 athletes. May repeat for PE credit.

SCIENCE

Overview of Courses



Course Descriptions

MYP BIOLOGY N

Course # 132030 A/B

Grades 9-12

Prerequisite: None

Length of Course: 1 year

Course fee and materials: \$15.00

This course will be an overview of biology, the study of life. The fundamentals of biology will be explored as students gain foundational knowledge and skills to be successful in standard or higher-level biology. This course will use the MYP philosophy and incorporate laboratory investigations.

MYP CHEMISTRY N

Course # 133135 A/B

Grades 10-12

Prerequisite: 1 year of high school science and Algebra 1

Length of Course: 1 year

Course fee and materials: \$15.00.

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

PHYSICS N

Course # 133200 A/B

Grades 11-12

Prerequisite: 2 years of high school science and concurrent Algebra 2

Length of Course: 1 year

Course fees and materials: \$15.00

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 three 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.

IB BIOLOGY SL I/ HL I N *

Course # 132035 A/B SL

Course # 132901 A/B HL

Grades 11-12

Prerequisite: Biology

Length of Course: 1 year

Course fee: \$20.00

IB Assessment fee: \$124.00

IB Biology SL I: This class will cover the following topics: ecology, evolution theory, investigation methods, cells botany, cell metabolism, biochemistry, genetics, biotechnology, human physiology. This class will teach students advanced laboratory techniques and use various advanced STEM equipment 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. This course will prepare students for the IB Biology Standard Level assessment given in May. Students take the Standard Level assessment or continue to IB Biology Higher Level.

IB Biology HL I: 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 N *

Course # 132902 A/B

Grade 12

Prerequisite: IB Biology HL I

Length of Course: 1 year

Course fee: \$20.00

IB Assessment fee: \$124.00

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.

IB CHEMISTRY SL N *

Course # 133140 A/B SL

Grades 11 or 12

Prerequisite: MYP Chemistry

Length of Course: 1 year

Course fee and materials: \$20.00

IB Assessment fee: \$124.00

Students taking the Standard Level Chemistry course will spend approximately 80 hours studying a subject specific core consisting of the following topics: stoichiometry, atomic theory, periodicity, bonding, states of matter, energetics, kinetics, equilibrium, acids and bases, oxidation and reduction, and organic chemistry. Students will spend an additional 60 hours learning three topics. All areas will include relevant laboratory investigations, and all students will be required to keep and submit a cumulative laboratory notebook. In addition, students are required to participate in and complete the Interdisciplinary Science Group 4 Research Project.

IB PHYSICS HL I N *

Course # 133220 A/B HL I

Grade 11 & 12

Prerequisite: Algebra 2

Length of Course: 1 year

Course fees and materials: \$20.00

IB Assessment fee: none

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 Year 1 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 N *

Course # 133225 A/B HL II

Grade: 12

Prerequisite: IB Physics HL I

Length of Course: 1 year

Course fees and material: \$20.00

IB Assessment fee: \$124.00

This is the second year of the HL Physics course. It covers the same topics as in the first year of physics and goes much deeper into all 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.

IB SPORTS, EXERCISE AND HEALTH SCIENCE SL N *

Course # 132091

Grade 11-12

Prerequisite: Biology and concurrent Algebra 2

Length of course: 1 year

Course fee and materials: \$30.00

IB Assessment fee: \$124.00

IB Sports, Exercise and Health Science SL builds upon students' learning of anatomy and physiology, biomechanics, psychology, and nutrition as related to sports, exercise and health.

GEOLOGY N

Course # 134200 A/B

Grades 10-12

Prerequisite: 1 year of high school science.

Length of Course: 1 semester or 1 year

Course fee and materials: \$10.00 (\$5 per semester)

Geology is the study of the dynamics of our planet and the physical processes that occur on it. Topics covered include mineralogy, earth structure and composition, plate tectonics and geological time, geologic hazards, environmental problems, and societal issues we face by living on earth. Emphasis is placed on problem solving and critical thinking skills. Projects, labs, and field trips are required.

FORENSIC SCIENCE N

Course # 139000 A/B

Grades 10-12

Prerequisite: Biology

Length of Course: 1 year

Course fee and materials: \$25.00

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

Grades 11-12

Prerequisite: Forensic Science

Length of Course: 1 year

Course fee and materials: \$25.00

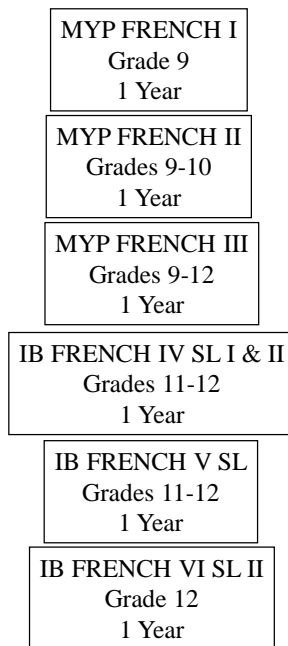
Forensic Science 2 is a year-long, lab-based science course. A comprehensive course offered as a second-level high school course in forensic science, students will have the opportunity to expand their knowledge of chemistry, biology, physics, human anatomy, and entomology. Topics that will be covered 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.

LANGUAGE ACQUISITION

FRENCH

Overview of Courses

French Courses



Course Descriptions

MYP FRENCH I N

Course # 062012 A/B

Prerequisite: None

Length of Course: 1 year

Course fee and materials: None

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 N

Course # 062014 A/B

Prerequisite: French I

Length of Course: 1 year

Course fee and materials: None

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 competence will be continually reinforced by means of various drills and activities. The culture of French speaking countries continues to be explored.

MYP FRENCH III N

Course # 062016 A/B

Prerequisite: French II

Length of Course: 1 year

Course fee and materials: None

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.

IB FRENCH IV SL N *

Course # 062160 A/B SL I

Course # 062162 A/B SL II

Prerequisite: French III.

Length of Course: 1 year

Course fee and materials: None

IB Assessment Fee: \$124.00 (SL II-Grade 12 only)

Students will increase fluency and accuracy in speaking and writing, and improve reading and oral comprehension skills. Students will produce and understand more complex and rigorous content, speak more confidently, and produce more complex writing. Students will use authentic French resources to examine current world events and increase their practical French skills. All students in IB French SL II will take an oral exam in March and a written exam in May. Students in SL I will NOT test. These courses will receive a weighted grade.

IB FRENCH V N *

Course # 062166 A/B SL I

Course # 062168 A/B SL II

Prerequisite: IB French IV.

Length of Course: 1 year

Course fee and materials: None

IB Assessment fee: \$124.00

Students will increase fluency and accuracy in speaking and writing, and improve reading and oral comprehension skills. Students will produce and understand more complex and rigorous content, speak more confidently, and produce more complex writing. Students will use authentic French resources to examine current world events and increase their practical French skills. All students in IB French SL II will take an oral exam in March and a written exam in May. Students in SL I will NOT test. These courses will receive a weighted grade.

IB French VI SL II N *

Course # 062172 A/B

Prerequisite: IB French V SL

Length of course: 1 year

Course fee and materials: None

IB Assessment fee: \$124.00

Students will increase fluency and accuracy in speaking and writing, and improve reading and oral comprehension skills. Students will produce and understand more complex and rigorous content, speak more confidently, and produce more complete writing. Students will use authentic French resources to examine current world events and increase their practical French skills. All students in IB French SL II will take an oral exam in March and a written assessment in May. This course will receive a weighted grade.

SPANISH

Overview of Courses

Spanish Courses

MYP SPANISH I Grade 9 1 Year

MYP SPANISH II Grades 9-10 1 Year

MYP SPANISH III Grades 9-12 1 Year
--

IB SPANISH IV Grades 11-12 1 Year

IB SPANISH V Grades 11-12 1 Year
--

IB SPANISH VI Grade 12 1 Year

Course Descriptions

MYP SPANISH I N

Course # 062086 A/B

Prerequisite: None

Length of Course: 1 year

Course fee and materials: None

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 N

Course # 062087 A/B

Prerequisite: Spanish I, two or more years of Middle School Spanish, or proficient performance on placement test. To take the placement test please contact lisa.merten@asd20.org

Length of Course: 1 year

Course fee and materials: None

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 competence

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 N

Course # 062089 A/B

Prerequisite: Spanish II

Length of Course: 1 year

Course fee and materials: None

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.

IB SPANISH IV N *

Course # 062091 A/B

Prerequisite: Spanish III

Length of Course: 1 year

Course fee and materials: None

IB Assessment Fee: \$124.00 (Grade 12 only)

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

IB SPANISH V N *

Course # 062093 A/B

Prerequisite: IB Spanish IV.

Length of Course: 1 year

Course fee and materials: None

IB Assessment fee: \$124.00 (Grade 12 only)

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

IB SPANISH VI N *

Course # 062094 A/B

Prerequisite: IB Spanish V

Length of Course: 1 year

Course fee and materials: None

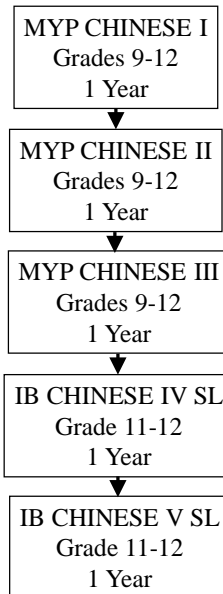
IB Assessment fee: \$124.00

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

CHINESE (MANDARIN)

Overview of Courses

Chinese Courses



Course Descriptions

MYP CHINESE I (MANDARIN) N

Course # 062138 A/B

Prerequisite: None

Length of Course: 1 year

Course fee and materials: None

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) N

Course # 062143

Prerequisite: MYP Chinese I (Mandarin)

Length of Course: 1 year

Course fee and materials: None

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

MYP CHINESE III (MANDARIN) N**Course # 062144**

Prerequisite: MYP Chinese II (Mandarin)

Length of Course: 1 year

Course fee and materials: None

MYP Chinese III builds on the skills required 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.

IB CHINESE IV (MANDARIN) SL N***Course # 062157**

Prerequisite: MYP Chinese III (Mandarin)

Length of Course: 1 year

Course fee and materials: None

IB Assessment Fee: \$124.00

Students will continue to develop the ability to communicate in the Chinese (Mandarin) language through the study of language, themes and texts. In doing so, students will also develop conceptual understandings of how language works. Communication will be evidenced through receptive, productive and interactive skills across a range of contexts and purposes that are appropriate to the level of the course.

IB CHINESE V (MANDARIN) SL N***Course # 062157**

Prerequisite: IB Chinese IV (Mandarin) SL

Length of Course: 1 year

Course fee and materials: None

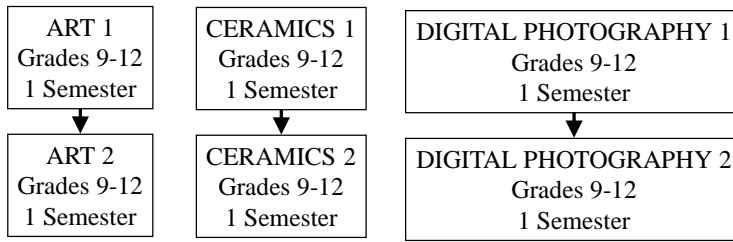
IB Assessment Fee: \$124.00

Students will continue to develop the ability to communicate in the Chinese (Mandarin) language through the study of language, themes and texts. In doing so, students will also develop conceptual understandings of how language works. Communication will be evidenced through receptive, productive and interactive skills across a range of contexts and purposes that are appropriate to the level of the course.

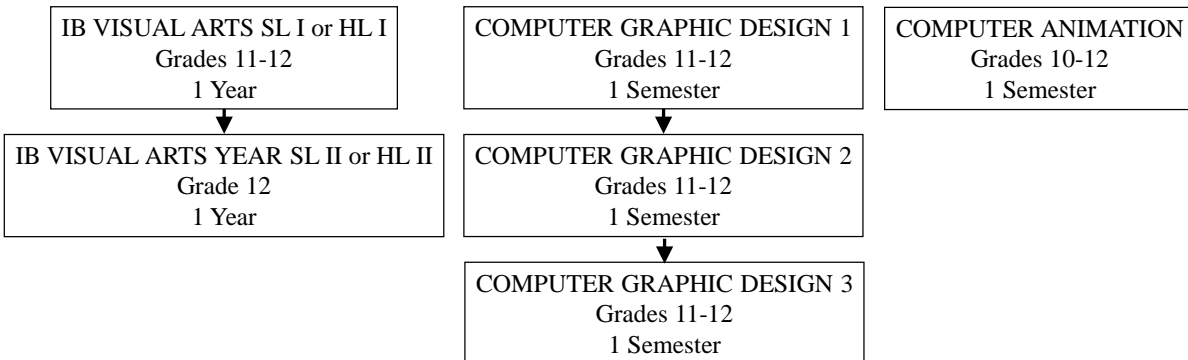
VISUAL ARTS

Overview of Courses

Introductory Courses



Advanced Courses



Introductory Course Descriptions

ART 1

Course # 020000

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: \$20.00

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 9-12

Prerequisite: Art 1

Length of Course: 1 semester

Course fee and materials: \$25.00

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.

CERAMICS 1

Course # 023000

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: \$25.00

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

Length of Course: 1 semester

Course fee and materials: \$25.00

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

DIGITAL PHOTOGRAPHY 1

Course # 026050

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: \$20.00 – It is highly recommended to have a DSLR camera, but not required.

Students will explore 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.

DIGITAL PHOTOGRAPHY 2

Course # 026055

Grades 9-12

Prerequisite: Successful completion of Digital Photography 1

Length of Course: 1 semester

Course fee and materials: \$25.00, digital single lens reflex camera highly recommended

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.

Advanced Course Descriptions

IB VISUAL ARTS SL/HL I *

Course # 029001 A/B SL I

Course # 029003 A/B HL I

Grade 11

Prerequisite: 1 semester of high school art or instructor approval. Instructor may ask for portfolio sample for students missing two semesters of high school art.

Length of Course: 1 Year

Course fee and materials: \$50.00 (\$25.00 per semester) IB Assessment fee: None

IB Visual Arts SL I: This is the first year of a two-year sequence of classes for students choosing to study art at the standard 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 workbooks are an integral part of the course as they are used to develop research into artists, materials, media, and techniques. Students will be prepared to continue to IB Visual Arts SL II.

IB Visual Arts HL I: 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.

IB VISUAL ARTS SL/HL II *

Course # 029002 A/B SL II

Course # 029004 A/B HL II

Grade 12

Prerequisite: IB Visual Arts SL or HL I

Length of Course: 1 Year

Course fee and materials: \$50.00 (\$25.00 per semester)

IB Assessment fee: \$124.00

IB Visual Arts SL II: This is the second year of a two-year intensive 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. 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. Students can choose between a studio emphasis or an investigative emphasis. In addition, investigative workbooks are an integral part of the course as they are used to develop research into artists, materials, media, and techniques. Internal assessment is done by the teacher and externally moderated by the IBO in the spring semester. The DP exam score for this course is awarded by a visiting examiner assessing the students' studio work or pages of their investigative workbook as well as an interview with the student about their work, in combination with the Internal Assessment.

IB Visual Arts HL II: 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.

COMPUTER GRAPHIC DESIGN 1

Course # 026025

Grades 11-12

Prerequisite: 1 semester of high school art

Length of Course: 1 semester

Course fee and materials: \$20.00

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

Course # 026030

Grades 11-12

Prerequisite: Comp Graphic Design 1

Length of Course: 1 semester

Course fee and materials: \$25.00

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

COMPUTER GRAPHIC DESIGN 3

Course # 026035

Grades 11-12

Prerequisite: Comp Graphic Design 2

Length of Course: 1 semester

Course fee and materials: \$25.00

Students will continue to make computer generated works of art using industry standard software, and will develop a personal style.

COMPUTER ANIMATION

Course # 026010

Grades 10-12

Prerequisite: 1 semester of high school art

Length of Course: 1 semester

Course fee and materials: \$25.00

Students will learn how to create original computer animations using industry standard software. Projects will emphasize use of wireframe, motion paths, lighting and texture in producing original content. Students will create a portfolio of their work during this class.

TEACHER CADET

TEACHER CADET I *

Course # 191130 A/B

Location of Course: Discovery Canyon Campus High School

Pre-requisite/co-requisite: None

Course fee and materials: \$35.00

Students will be involved in a fast-paced, innovative, hands-on curriculum where they gain knowledge about teaching and learning. Teacher cadets will develop and master effective skills that will be helpful in college and beyond such as presentations, public speaking, writing, communication, and reasoning. This is a yearlong, sequential, honors course with college credit options. Students will make a difference with children as they "try out" teaching in a "mini student teaching experience.

Application:

<https://docs.google.com/forms/d/e/1FAIpQLSdBGiWsjaQflwcdiU1aalEDgGsfNCTnL4xpx0LxePbvFJrn7Q/viewform>

*Special Note: Students will need to provide their own transportation to DCC.

TEACHER CADET II *

Course # 191131 A/B

Location of Course: Discovery Canyon Campus High School

Pre-requisite/co-requisite: None

Course fee and materials: \$20.00

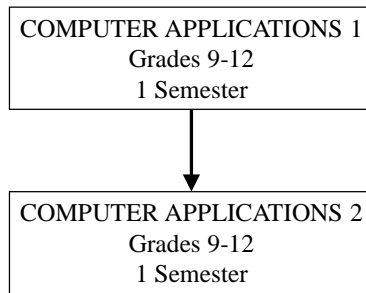
This course is designed to provide additional field experience for those students who have completed the Teacher Cadet course. For students who know they want to enter the education profession, this field experience will enhance their experience and understanding of classroom instruction and the challenges facing education today. Field time will include field contact hours working with a mentor plus seminar time at the home high school. Field experience placement will consist of two sites, a different site each semester, to provide a variety of experiences. These will be documented in a culminating portfolio.

*Special Note: Students will need to provide their own transportation to DCC.

COMPUTER SCIENCES

Overview of Courses

Computer Applications



Course Descriptions

COMPUTER APPLICATIONS 1

Course # 161000

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course fee and materials: None

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.

COMPUTER APPLICATIONS 2

Course # 161005

Grades 9-12

Prerequisite: Computer Applications 1

Length of Course: 1 semester

Course fee and materials: None

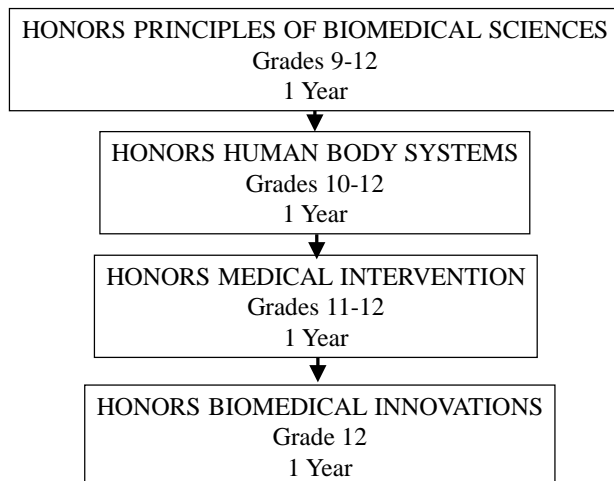
This course advances the student's knowledge of hardware, technology, and software introduced in Computer Apps 1.

PROJECT LEAD THE WAY (PLTW) PATHWAYS

PLTW HONORS BIOMEDICAL SCIENCES

Overview of Courses

PLTW Honors Biomedical Sciences Courses



Course Descriptions

HONORS PRINCIPLES OF BIOMEDICAL SCIENCES N*

Course # 139050 A/B

Grades 9-12

Pre-/Co-requisite: MYP Biology

Length of Course: 1 year

Course fee and materials: \$25.00

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. This course has a lab component. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

HONORS HUMAN BODY SYSTEMS N*

Course # 132070 A/B

Grades 10-12

Pre-/Co-requisite: Principles of Biomedical Science

Length of Course: 1 year

Course fee and materials: \$25.00

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the roles of biomedical professionals to solve medical mysteries. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

HONORS MEDICAL INTERVENTIONS N *

Course # 139055 A/B

Grades 11-12

Prerequisite: Human Body Systems

Length of Course: 1 year

Course fee and materials: \$25.00

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

HONORS BIOMEDICAL INNOVATIONS (BI) N *

Course # 139060 A/B

Grades 12

Prerequisite: Medical Interventions

Length of Course: 1 year

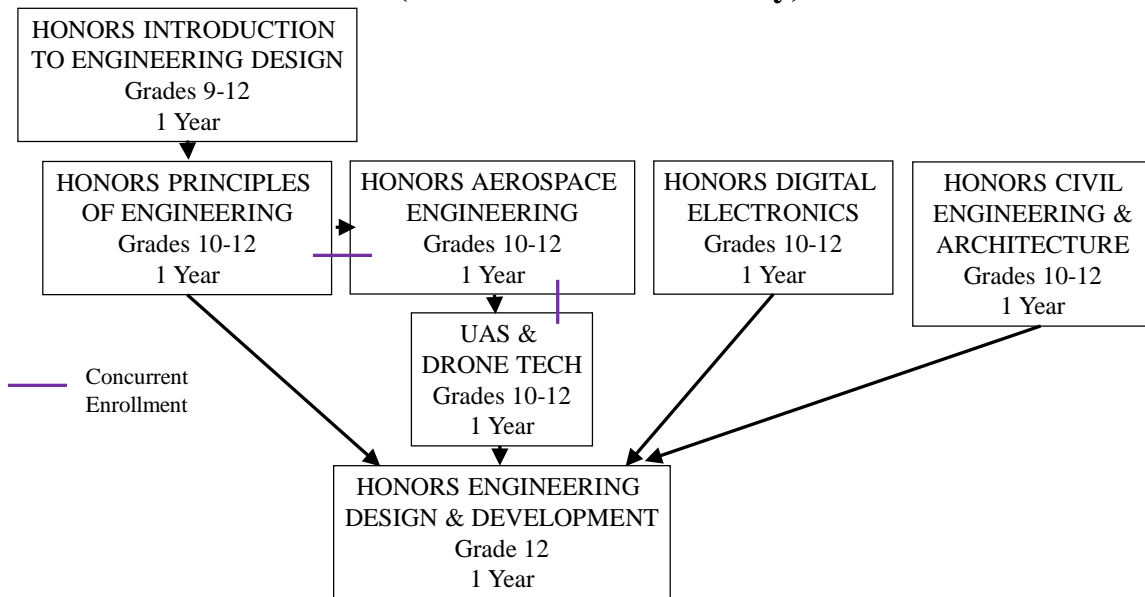
Course fee and materials: \$25.00

Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout they course, students are expected to present their work to an audience of STEM professionals. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

PLTW ENGINEERING TECHNOLOGY

Overview of Courses

PLTW Engineering Courses (Offered as a CP Pathway)



Course Descriptions

HONORS INTRODUCTION TO ENGINEERING DESIGN (IED) *

Course # 103036 A/B

Grades 9-12 (suggested for Freshmen)

Prerequisite: None

Length of Course: 1 year

Course fee and materials: \$20.00

Note: This course may be taken for college credit through UCCS/Extended Studies.

This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using a 3D, solid-modeling Computer-Aided Design (CAD) System (AutoCAD Inventor). This modern computer-based process replaces traditional drafting methods. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

HONORS PRINCIPLES OF ENGINEERING (POE) *

Course # 103051 A/B

Grades 10-12

Prerequisite: Introduction to Engineering Design

Length of Course: 1 year

Course fee and materials: \$20.00

Note: This course may be taken for college credit through UCCS.

Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and

manufacturing processes. They will also learn how engineers address concerns about the social and political consequences of technological change. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is all about and to answer the question: “Is a career in engineering or engineering technology for me?” This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

HONORS AEROSPACE ENGINEERING (AE) *

Course # 108405 A/B

Grades 10-12

Prerequisite: Introduction to Engineering Design and Principles of Engineering OR concurrent enrollment in Principles of Engineering

Length of Course: 1 year

Course fee and materials: \$20.00

Note: This course may be taken for college credit through UCCS.

Aerospace Engineering explores the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel, and orbital mechanics. In addition, this course presents alternative applications for aerospace engineering concepts. Students analyze, design, and build aerospace systems. They apply knowledge gained throughout the course in a final presentation about the future of the industry and their professional goals. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

AVIATION OF UAS & DRONE TECH (AE)

Course # 139021 A/B

Grades 10-12

Prerequisite: Aerospace Engineering OR concurrent enrollment in Aerospace Engineering

Length of Course: 1 year

Course fee and materials: \$20.00

Note: This course may be taken for college credit through UCCS.

This course will cover advanced flight topics from area Aviation experts. Students will be exposed to new concepts in UAS and drone technology as well as expanding topics covered in Principles of Flight to an advanced level specific to drone technology. Students will be preparing to pass the Federal Aviation Administration (FAA) private pilot written exam. (This course covers all competencies of AVT 160 and AVT 155.) This course is part of the Career and Technical Education Secondary Pathways Program.

HONORS DIGITAL ELECTRONICS (DE) *

Course # 104009 A/B

Grades 11-12

Prerequisite: Introduction to Engineering Design recommended

Length of Course: 1 year

Course fee and materials: \$20.00

Note: This course may be taken for college credit through UCCS.

The use of smart circuits (digital) is present in virtually all aspects of our lives. This makes digital electronics an essential course of study for a student exploring a career in engineering or engineering technology. Students will use industry-standard circuit design software to test and analyze simple and complex digital circuitry. Students will also have hands-on experiences building electronic projects, such as burglar alarms. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

HONORS CIVIL ENGINEERING & ARCHITECTURE (CEA) *

Course # 103016 A/B

Grades 10-12

Prerequisite: Introduction to Engineering Design recommended

Length of Course: 1 year

Course fee and materials: \$20.00

Note: This course may be taken for college credit through UCCS.

This course is a study of design and drafting as related to residential and commercial construction. Students will use hands-on activities involving both computer design software (AutoCAD) and construction to cover: architectural styles, land development and plot design, floor plans (complete set), elevation drawings, landscaping design, basic building construction, energy efficiency, environmental impact and cost-effective design practices. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

HONORS ENGINEERING DESIGN & DEVELOPMENT (EDD) *

Course # 103041 A/B

Grade 12

Prerequisite: Intro to Engineering Design and another engineering class

Length of Course: 1 year

Course fee and materials: \$20.00

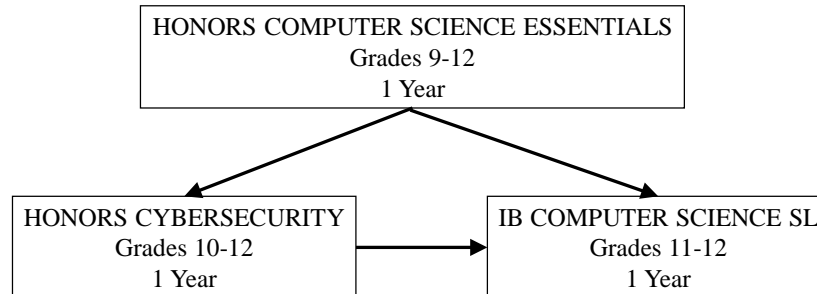
Notes: This course may be taken for college credit through UCCS.

This is the Pathway's capstone course, designed for expansion and in-depth study in engineering. It is an engineering project course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in preceding courses. Students must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

PLTW COMPUTER SCIENCES

Overview of Courses

PLTW Computer Sciences Courses (Offered as a CP Pathway)



Course Descriptions

HONORS COMPUTER SCIENCE ESSENTIALS *

Course # 160025 A/B

Grades 9-12

Prerequisite: Algebra 1

Length of Course: 1 year

Course fee and materials: None

Note: This course is available for college credit through UCCS.

Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. This course is part of the national Project the Lead the Way (PLTW) approved program course sequence.

***Note: Students work toward the Python Institute’s entry-level industry certification, the PCEP, with certification funded for those who are reasonably prepared.**

HONORS CYBERSECURITY *

Course # 169065 A/B

Grades 10-12

Prerequisite: Honors Computer Science Essentials

Length of Course: 1 year

Course fee and materials: None

Note: This course is available for college credit through UCCS.

The design of the course exposes high school students to the ever growing and far-reaching field of cybersecurity. Students accomplish this through problem-based learning, where students role-play as cybersecurity experts and train as cybersecurity experts do. PLTW Cybersecurity gives students a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and especially “outside-the-box” thinking. Students explore the many educational and career paths available to cybersecurity experts, as well as other careers that comprise the field of information security. This course is part of the national Project Lead the Way (PLTW) approved program course sequence.

***Note: Students work toward the CompTIA IT Fundamentals+ industry certification, the PCEP, with certification funded for those who are reasonably prepared.**

IB COMPUTER SCIENCE SL *

Course # 160040 A/B

Grades 11-12

Prerequisite: Honors Computer Science Essentials

Length of Course: 1 year

Course fee and materials: None

IB Assessment fee: \$124.00

Students will develop an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. Students will draw upon a wide spectrum of knowledge to enable and empower innovation, exploration, and the acquisition of further knowledge. Students study how computer science interacts with and influences cultures, society and how individuals behave, and the ethical issues involved.

***Note: Students work toward the Oracle Java Foundations Associate industry certification, with certification funded for those who are reasonably prepared.**

IB CORE

Course Descriptions

IB DP CORE THEORY OF KNOWLEDGE N*

Course # 158017 A/B

Grade 11

Course # 158017 C

Grade 12

Prerequisite: Open to students taking two or more IB courses

Length of Course: 1.5 year

Course fee and materials: Book list provided by the instructor.

IB DP Core Theory of Knowledge (TOK) aims to make students aware of the interpretative nature of knowledge, including personal ideological biases - whether these biases are retained, revised or rejected. It offers students and their teachers the opportunity to reflect critically on diverse ways of knowing and on areas of knowledge, and consider the role and nature of knowledge in their own culture, in the culture of others and in the wider world. In addition, TOK prompts students to be aware of themselves as thinkers, encouraging them to become more acquainted with the complexity of knowledge, and recognize the need to act responsibly in an increasingly interconnected but uncertain world.

IB CP CORE PERSONAL AND PROFESSIONAL SKILLS N*

Course # 039100 A/B

Grade 11

Course # 039100 C

Grade 12

Prerequisite: Must be enrolled in a Career Pathway

Length of Course: 1.5 year

Course fee and materials: Book list provided by the instructor.

IB CP Core Personal and Professional Skills is designed to develop attitudes, skills and strategies to be applied to personal and professional situations and contexts now and in the future. In this course the emphasis is on skills development for the workplace as these are transferable and can be applied in a range of situations.

SPECIAL PROGRAMS

Course Descriptions

ELEMENTARY SCHOOL HELPERS PROGRAM ®

Course # 191015

Grades 9-12

Prerequisite: Application, including instructor recommendation.

Length of Course: 1 semester

Course and materials fee: None

Students enrolled in this program will be assigned to help an elementary classroom in District 20. Classroom tasks will be assigned by the classroom teacher, and will involve working with students individually as well as in small groups. Tasks will also include a wide variety of activities common to elementary school and elementary teaching based on the needs of the individual classroom. This program is particularly useful to high school students who are considering a career in elementary education. It is necessary for students to provide their own transportation. Credit is based on number of hours of participation at the elementary school and teacher evaluation. See your counselor for more information and application.

PEER PARTNER ®

Course # 191035

Grades 10-12

Prerequisite: None

Length of Course: 1 semester

Course and materials fee: None

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.

PEER TUTOR ®

Course # 191007

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course and materials fee: None

Students enrolled in this course serve as a peer tutor under the guidance and supervision of a teacher. Students will receive a Pass/Fail grade for this course.

STUDENT GOVERNMENT ®

Course # 191080A/B

Grades 9-12

Prerequisite: Application

Length of Course: 1 year

Course and materials fee: \$75.00

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.

TEACHER ASSISTANT ®

Course # 191065

Grades 9-12

Prerequisite: Application

Length of Course: 1 semester

Course and materials fee: None

This program is designed to train students to provide assistance to students, faculty, and staff as well as give students experience in classroom duties. One-half credit is given, and evaluation is given on a “pass/fail” basis.

STUDY HALL

Course # 191050

Grades 9-12

Prerequisite: None

Length of Course: 1 semester

Course and materials fee: None

No credit is given for this class, which provides time for students to do homework. Attendance is mandatory.

ATTENDANCE WAIVER AM/PM

Course # 191255 A/B (1st /2nd semester (pm) class)

Course # 191260 A/B (1st/2nd semester (am) class)

Grades 9-12

Prerequisite: Signed parent permission form and DCCHS Dean approval

Length of Course: 1 semester

Course and materials fee: None

A form may be filled out at the beginning of the year for both semesters. All forms must be turned into and approved by the Dean of Students. You must have an attendance waiver approved by the Dean of Students and reflected in your current schedule prior to departing campus during any period for which you have requested a waiver.

CAREER & TECHNOLOGY EDUCATION (CTE) CAMPUS PATHWAY COURSES

Academy 20 offers special Career and Technology Education courses at high schools across the district. More information about these programs can be found on the individual school website or in the [D20 Postsecondary Opportunities book](#). Please reach out to the [College & Career Department](#) with specific questions.

AUTOMOTIVE TECHNOLOGY

Course Descriptions

AUTOMOTIVE TECHNOLOGY 1

Course # 108310 A/B

Grades 11-12 students who are on track to graduate.

Prerequisites: None; however, we recommend that students have completed Algebra 1 and Geometry.

Length of Course: 1 year

Course Fee: \$100.00 plus any additional fees for those who wish to pursue certification exams.

Type of Credit Earned: 4 core elective credits for successful completion of the course.

Course Format: Year-long double block course that meets every other day. Meets from 8 a.m. to 11 a.m. or from 11:45 a.m. to 2:45 p.m.

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.

***Notes: This is a year-long, double-block course (e.g., Purple 1 and Purple 2) held at Liberty High School. District 20 provides transportation to and from home high schools for the morning sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.**

AUTOMOTIVE TECHNOLOGY 2

Course # 108315 A/B

Grade 12 students who are on track to graduate

Prerequisites: Successful completion of Automotive Technology I and instructor approval.

Length of Course: 1 year

Course Fee: \$100.00 plus any additional fees for those who wish to pursue certification exams.

Type of Credit Earned: 4 core elective credits for successful completion of the course.

Course Format: Year-long double block course that meets every other day. Meets from 8 a.m. to 11 a.m. or from 11:45 a.m. to 2:45 p.m.

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.

***Notes: This is a year-long, double-block course (e.g., Purple 1 and Purple 2) held at Liberty High School. District 20 provides transportation to and from home high schools for the morning sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.**

BUILDING CONSTRUCTION TECHNOLOGY

Course Descriptions

BUILDING CONSTRUCTION TECHNOLOGY 1

Course # 101010 A/B

Grades 10-12 students who are on track to graduate.

Prerequisites: None; however, we recommend that students have completed Algebra 1 and Geometry or be concurrently enrolled in Geometry.

Length of Course: 1 Year

Course Fee: \$100.00 plus any additional fees for supplies/tools and for those who wish to pursue certification exams.

Type of Credit Earned: 4 core elective credits for successful completion of the course.

Course Format: Year-long double block course that meets every other day. Meets from 8 a.m. to 11 a.m. or from 11:45 a.m. to 2:45 p.m.

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 & Construction Materials; and (4) Employability. Students will gain a foundation for entry-level employment or further schooling/training.

***Notes: This is a year-long, double-block course (e.g., Purple 1 and Purple 2) held at Liberty High School. District 20 provides transportation to and from home high schools for the morning 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

Grades 11-12 students who are on track to graduate.

Prerequisites: Successful completion of Building Construction I and instructor approval.

Course Fee: \$100.00 plus any additional fees for supplies/tools and for those who wish to pursue certification exams.

Type of Credit Earned: Four core elective credits for successful completion of the course.

Course Format: Year-long double block course that meets every other day. Meets from 8 a.m. to 11 a.m. or from 11:45 a.m. to 2:45 p.m.

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). Students will gain a foundation for entry-level employment or further schooling/training.

***Notes: This is a year-long, double-block course (e.g., Purple 1 and Purple 2) held at Liberty High School. District 20 provides transportation to and from home high schools for the morning sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.**

HEALTHCARE

Course Descriptions

CERTIFIED NURSING ASSISTANT (CNA)

Course # 074100 A/B

Grades 11-12

Prerequisites: None; however, it is strongly recommended that students have completed or are concurrently enrolled in Anatomy & Physiology.

Course Length: 1 year

Course Fee: \$100.00 plus costs for background check, liability insurance, and board exams.

Type of Credit Earned: 4 core elective credits for successful completion of the courses as well as college credit for all courses completed.

Course Format: Year-long double block set of courses that meet every other day. Meets from 8 a.m. to 11 a.m. or from 11:45 a.m. to 2:45 p.m.

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.

***Notes: 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.**

This is a year-long, double-block course (e.g., Purple 1 and Purple 2) held at Liberty High School. District 20 provides transportation to and from home high schools for the morning sections only. Students enrolled in afternoon sections will need to provide their own transportation to and from Liberty High School.

EMERGENCY MEDICAL TECHNICIAN (EMT)

Course # 079000 A/B

Grade 12 ONLY

Prerequisites: B or better in junior English and Algebra II (both semesters) or PSAT or SAT score of 470 in English and 500 in Math; recommended that students have completed or are concurrently enrolled in Anatomy & Physiology.

Course Length: 1 year

Course Fee: \$100.00 plus costs for background check, liability insurance, and board exams.

Type of Credit Earned: 4 core elective credits for successful completion of the courses as well as college credit for all courses completed.

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.

***Notes: 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.**

AIR FORCE JUNIOR ROTC

Course Descriptions

AIR FORCE JUNIOR ROTC 1

Course # 089100 A/B

Location of Course: Air Academy High School

Grades 9-12

Prerequisite: Application and instructor approval.

Length of Course: 1 year/2 credits (Core Elective - Social Studies)

Cadet fee: \$40.00

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.

AIR FORCE JUNIOR ROTC 2

Course # 089105 A/B

Location of Course: Air Academy High School

Grades 10-12

Prerequisite: AFJROTC 1 and instructor approval.

Length of Course: 1 year/ 2 Credits (Core Elective - Science)

Cadet fee: \$25.00

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.

AIR FORCE JUNIOR ROTC 3

Course # 089110 A/B

Location of Course: Air Academy High School

Grades 11-12

Prerequisite: AFJROTC 1 and 2 and instructor approval.

Length of Course: 1 year /2 Credits (Core Elective - Science)

Cadet fee: \$25.00

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.

AIR FORCE JUNIOR ROTC 4

Course # 089115 A/B

Location of Course: Air Academy High School

Grade 12

Prerequisite: AFJROTC 1 and instructor approval/signature .

Length of Course: 1 year /2 Credits (Unrestricted Elective)

Cadet fee: \$25.00

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.

ACADEMY SCHOOL DISTRICT 20

POST-SECONDARY OPPORTUNITIES

Academy School District 20 offers a wide variety of college level programs students can participate in while attending DCC. Below you will find a short description of each program; please refer to the [College & Career Program Guide](#) for application links and more information. Please connect with the [College & Career Department](#) if you have any questions.

<u>Program</u>	<u>Description</u>	<u>Grade level</u>
Concurrent Enrollment Pikes Peak State College (PPSC)	College-ready high school students can apply for a course at PPSC and earn high school and college credit. All courses must be pre-approved by the student's high school counselor and by College and Career Services to qualify for Concurrent Enrollment, and students will be directed to course opportunities at their home high school first. In most circumstances, only in-person PPSC courses will be approved for Concurrent Enrollment; online courses are typically denied unless there is a compelling reason that the student cannot access a course through the in-person learning modality.	9-12
Career Start	High school juniors and seniors can enroll in a half day program in a technical or trade area of study. Students earn core elective as well as college credit that can be applied to an associate degree program. Students attend courses at the college every day, returning to DCCHS for the last class of the day.	11 & 12
ASCENT	High school seniors who have met all D20 graduation requirements and who have completed at least 12 college credit hours may apply for ASCENT, which allows them to stay enrolled in high school for a fifth year while they take only college courses at PPSC.	12+
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, returning to DCCHS for the last class of the day.	11 & 12
CU Succeed (UCCS)	Students may earn college credit for successfully completing select asynchronous high school academic courses. Some courses may be guaranteed to transfer to public institutions of higher education within Colorado. The student is responsible to research transferability. Courses must be pre-approved by your high school counselor and College & Career Services.	9-12
Pre-Collegiate Development Program (PCDP)	Students participate in a three-year program consisting of an intensive summer experience at UCCS. Students choose from one of five areas of study: Business, Education, Engineering, Health, or Human Services. Freshmen only.	9

Outside Credit

Occasions may arise where students may need to earn credits not offered as part of the established educational sequence sponsored by their District 20 high school. To accommodate these situations, the following guidelines and expectations are in place. Students may, subject to the information below, take no more than 6 outside credits in attainment of the required credits for graduation.

All courses from outside agencies need to be approved by the counselor and principal prior to enrollment in the outside credit. Credits completed without prior approval will not be considered.

All credit must be obtained from approved accredited agencies.

Courses taken through outside agencies are not paid for by District 20 or the individual school.

Courses taken with outside agencies are included in the student's GPA. Courses that are failed are also included.

Students may be responsible for any institution fees.

Students will need to submit a completed [Outside Agency Credit Form](#) to the College & Career Center before the course begins to have the credit transcribed on their DCC transcript. Please connect with the [College & Career Department](#) for any questions.