



Denali Borough School District



# Course Guide

2023 - 2024

*Anderson, Cantwell, PEAK Correspondence and  
Tri-Valley Schools*

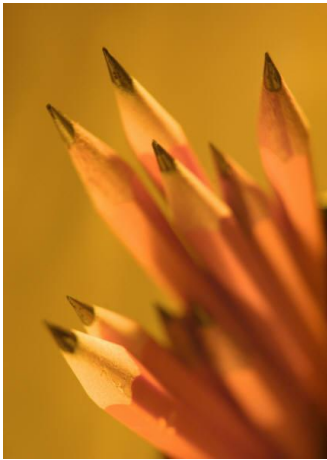
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## Introduction



This guide has been designed to assist the students and parents of the Denali Borough School District (DBSD) in developing a four-year high school program of study. Students and parents should remember to select courses that meet the DBSD Graduation Requirements. Students are also encouraged to select courses that meet their own individual interest, ability level, and goals. The eligibility requirements for the Alaska Performance Scholarship (APS) may also be another important consideration when planning courses of study. The DBSD Graduation Requirements, as well as the APS Eligibility Requirements are included within this course guide.

Students and their parents are encouraged to explore career options with a counselor or other school administrator to help identify education needs. Plan ahead and consider options for a four-year program (grades 9-12) that will meet your education needs and personal interests. It is also important to have a couple of alternative courses selected when scheduling. The school's master schedule is developed with consideration to course rotation, course requests, and student demand. The courses listed in this guide are possible courses that will be offered within the Denali Borough School District and are meant as a guideline for students and parents when scheduling. The courses listed within the guide will not be offered at every site, nor will they all be offered during every school year.

# Calendar

## DBSD School Calendar 2023-2024

14 New teacher first day  
 15 Teachers' first day  
 15-17 In-service – no school  
 18 & 21 Teacher workday – no school  
 22 Class begins

AUGUST '23						
S	M	T	W	Th	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY '24						
S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

19 In-service – no school

4 Labor Day – no school  
 18 In-service – no school

SEPTEMBER '23						
S	M	T	W	Th	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MARCH '24						
S	M	T	W	Th	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

11-15 Spring break – no school  
 27 Student led conference – no school

9 In-service – no school  
 18 Student led conference – no school

OCTOBER '23						
S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL '24						
S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

1 In-service – no school  
 12 Teacher workday – no school

23 & 24 Thanksgiving Day – no school

NOVEMBER '23						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MAY '24						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

23 End of quarter/last day of school  
 24 Teacher workday – no school  
 27 Memorial Day

15 End of quarter  
 18 – 29 Winter Break – no school  
 25 Christmas Day – no school

DECEMBER '23						
S	M	T	W	Th	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

JUNE '24						
S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

1 New Year's Day – no school  
 2 Teacher workday – no school  
 3 School resumes – 2<sup>nd</sup> sem.  
 15 In-service – no school & Martin Luther King Day

JANUARY '24						
S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JULY '24						
S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

4 Independence Day

Approved 4.20.23

## Graduation Requirements

### High School Graduation Requirements, **BP 6146.1(a)**

HIGH SCHOOL GRADUATION REQUIREMENTS The Denali Borough School District believes in high academic standards and the development of the individual student to enhance success in life after high school.

The Denali Borough School District supports eight (8) semesters or more of full-time, active participation (five (5) or more classes per semester).

The following are the minimum graduation requirements:

Complete standard eight (8) semesters of full time five (5 or more classes) active participation, or receive waiver.

Minimum graduation credits will be as follows:

<u>Subject Area</u>	<u>Credits</u>
Math	(4 Credits)
Language Arts	(4 Credits)
Science	(3 Credits)
Social Studies	(3 Credits*)
Career Technical Education	(1 Credit)
PE	(1 Credit**)
Health	(.5 Credit)
Electives	(5.5 Credits)
<u>TOTAL 22 Credits Total</u>	

Additional credits in Social Studies and Science are recommended.

\*to include .5 Credit Government, at least .5 Credit of Alaska Studies and 1 Credit U.S. History

\*\*PHYSICAL EDUCATION/SKILLS FOR A HEALTHY LIFE CREDIT The equivalent of one-quarter (1/4) credit for the Physical Education requirement may be waived for each full season of participation in approved interscholastic athletic competition. School principals will provide a list of approved sports. To receive credit a student must remain eligible for the entire season. The total credit waived shall not exceed one (1) credit. Elective credit must be earned to replace the credit that is waived. A waiver of credit under this section does not affect the overall minimum graduation requirements.

**BP 5145.3**

District programs and activities shall be free from discrimination with respect to sex, race, color, religion, national origin, ethnic group, marital or parental status, and physical or mental disability. The School Board shall ensure equal opportunities for all students in admission and access to academic courses, guidance and counseling programs, athletic programs, testing procedures, vocational education and other activities. Separate arrangements may be made for students according to sex during sex education programs and physical education activities involving bodily contact. School staff and volunteers must be especially careful to guard against unconscious sex discrimination and stereotyping in instruction, guidance and supervision.

## Alaska Performance Scholarship

The Alaska Performance Scholarship (APS) is a merit-based scholarship for Alaska high school graduates meeting a core set of requirements to receive funding for college and/or career training in Alaska. More information can be found at:

[http://akadvantage.alaska.gov/Grants\\_and\\_Scholarships/Alaska\\_Performance\\_Scholarship.aspx](http://akadvantage.alaska.gov/Grants_and_Scholarships/Alaska_Performance_Scholarship.aspx)

### Eligibility Requirements:

- **Level 1: (Up to \$4,755 per year)**
  - High School GPA 3.5
  - ACT – 25 or SAT – 1680 prior to March 2016 , 1210 after March 2016
  - If applying for the Career and Technical Education (CTE) award only – then a score of 13 with no individual score below four (4) in Math, Reading, and Locating Information on the WorkKeys may be substituted for the ACT or SAT requirement.
  - Four (4) credits each in Math, Language Arts, Science, and Social Studies; Two (2) credits of the same Foreign Language may substitute one (1) credit each of Math and Science.
- **Level 2: (Up to \$3,566 per year)**
  - High School GPA 3.0
  - ACT – 23 or SAT – 1560 prior to March 2016 , 1130 after March 2016
  - If applying for the Career and Technical Education (CTE) award only – then a score of 13 with no individual score below four (4) in Math, Reading, and Locating Information on the WorkKeys may be substituted for the ACT or SAT requirement.
  - The Level 2 Scholarship has the same credit requirements as Level 1 (above).
- **Level 3: (Up to \$2,378 per year)**
  - High School GPA 2.5
  - ACT – 21 or SAT – 1450 prior to March 2016 , 1060 after March 2016
  - If applying for the Career and Technical Education (CTE) award only – then a score of 13 with no individual score below four (4) in Math, Reading, and Locating Information on the WorkKeys may be substituted for the ACT or SAT requirement.
  - The Level 3 Scholarship has the same credit requirements as Level 1 (above).

## Course Planning Worksheet

- 4 credits – Language Arts
- 4 credits – Mathematics
- 3 credits – Social Studies (to include: 0.5 cr. Alaska Studies, Government, 1 cr. US History)
- 1 credit – Technology/Careers
- 1 credit – Physical Education
- 0.5 credits – Health
- 5.5 credits – Electives

**Directions:** Below are the minimum requirements for graduation from the Denali Borough School District. Check off the boxes as you complete your high school plan of study. There are additional requirements for the Alaska Performance Scholarship (APS).

9 <sup>th</sup> grade		10 <sup>th</sup> grade		11 <sup>th</sup> grade		12 <sup>th</sup> grade	
1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester

**11<sup>th</sup> Grade** – Work Keys, ACT and/or SAT

Work-Based Learning Opportunities	Career & Technical Organizations	Certifications
Apprenticeship Cooperative Education Service Learning Internship(s) Job Shadowing School-Based Enterprise		
<b>What is a Plan of Study?</b> Suggested classes within a career pathway that aligns high school and postsecondary options. This may include college education, apprenticeship, or other training that leads students to an industry-recognized credential or certificate.	<b>Interested in an Apprenticeship?</b> Research apprenticeship opportunities at: <a href="http://www.jobs.state.ak.us/apprentice">www.jobs.state.ak.us/apprentice</a>	
<b>Plan and Organize Your Future Checklist:</b> Keep your grade reports; know your GPA, and print out your transcripts. Keep a portfolio including your best high school work. Track community service or volunteer work. Take placements tests. Apply for college or other training. Apply for financial aid at: <a href="http://www.fafsa.ed.gov">www.fafsa.ed.gov</a> Figure out school and housing costs. Meet with an advisor. Register for classes and attend orientation.		

# Course Descriptions

## CAREER & TECHNICAL DEVELOPMENT

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Graduation Requirement  
1 credit

### **Advanced Computer Applications**

**Course # N10008**

**Length: 1-2 Semesters**

**Prerequisite: Successful Completion of Intro to Computer Technology Course**

**Grades: 9-12**

**Credit: 0.5-1**

In Advanced Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications and pursue professional certification in areas, including (but not limited to), Microsoft Office, Microsoft Technician, and Adobe Creative Suite, Autodesk, and Business. In this course students complete certificates from an approved list of advanced programs (available from the instructor) in a suite after completing introductory programs of that suite. (This course may be repeated in subsequent years for credit with instructor approval if student elects to complete a different software suite's certificates)

### **Applied Computer Technology**

**Course # N10003**

**Length: 1 Semester**

**Prerequisite: Successful Completion of Intro to Computer Technology Course**

**Grades: 9-12**

**Credit: 0.5**

Computer and Information Technology courses teach students to operate and use computer and information technology, emphasizing their role as tools to communicate more effectively, conduct research more efficiently, and increase productivity. Course content includes the legal and ethical issues involved with computer technology and use.

## **Automotive**

**Course # N20103**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Primarily intended as a personal automobile mechanics course, but also useful for students exploring future careers in automotive technologies. Introduction to Automobiles courses expose students to the various mechanical systems in automobiles and provide basic experience in maintenance tasks. The course may also cover career opportunities in the automotive and/or transportation fields.

## **Aviation**

**Course # N20053**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Aviation courses provide students with an understanding of the science of flight and typically include the history, regulations, and possible career paths within the aviation industry. Aviation courses usually cover physics, the relationships of weight and balance, principles of navigation and flight control, ground and airport operations and services, and Federal Aviation Agency regulations.

## **Building Trades I**

**Course # N17003**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Building Trades is a carpentry course which provides information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses may teach skills for rough construction, finish work, or both. Students learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work.

## **Building Trades II**

**Course # N17002**

**Length: 2 Semesters**

**Prerequisite: Building Trades I**

**Grades: 9-12**

**Credit: 1.0**

Building Trades II is an advanced carpentry course which provides information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists, erecting sills and rafters, applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Students learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work.

## **Career Exploration/ Development**

*Recommended*

**Course # N22151**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills. Students will make use of the online AKCIS program for career portfolio building. AKCIS is a statewide tool designed for secondary and postsecondary planning and career exploration.

## **Career/Technical (CTE) Exploratory**

**Course # N17001**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Construction Career Exploration courses expose students to the opportunities available in construction-related trades, such as carpentry, masonry, air conditioning/refrigeration, plumbing, and so on. Students learn about the processes involved in construction projects and may engage in a variety of small projects. These courses emphasize responsibilities, qualifications, work environment, rewards, and career paths within construction-related fields.

## **Computer Applications**

**Course # N10004**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

In Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications and pursue professional certification in areas, including (but not limited to), Microsoft Office, Microsoft Technician, and Adobe Creative Suite, Autodesk, and Business. In this course students complete certificates from an approved list of introductory programs available from the instructor. (This course may be repeated in subsequent years for credit with instructor approval if student elects to start a different software suite's introductory certificates)

## **Exploring Computer Science**

**Course # N10012**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Course presents students with the conceptual underpinnings of computer science through an exploration of human computer interaction, web design, computer programming, data modeling, and robotics. While these courses include programming, the focus is on the computational practices associated with doing computer science, rather than just a narrow focus on coding, syntax, or tools. Exploring Computer Science courses teach students the computational practices of algorithm design, problem solving, and programming within a context that is relevant to their lives.

## **Exploration of Health Care Occupations**

**Course # N14001**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

**\*1 semester can be used as Health course toward graduation requirements with prior approval of Counselor and Site Administrator.**

Exploration of Health Care Occupations course exposes students to the variety of opportunities available within the healthcare industry (e.g., such as nursing, therapy, dental care, administrative services, and lab technology). This course provides experiences in several of these occupational clusters, along with information and knowledge related to the healthcare industry as a whole.

## **Health Care Occupations-Comprehensive**

**Course # N14002**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of N14001**

**Grades: 9-12**

**Credit: 1.0**

Health Care Occupations Comprehensive course provides students with an orientation to the healthcare industry and helps refine their health care-related knowledge and skills. Topics covered include (but are not limited to) an overview of health care delivery, patient care, including assessment of vital signs, body mechanics, and diet; anatomy and physiology; identification and use of medical equipment and supplies; medical terminology; hygiene and disease prevention; first aid and CPR procedures; laboratory procedures; and ethical and legal responsibilities.

## **Intensive/CTE**

**Course # N22990**

**Length: 2 Weeks**

**Prerequisite: High School Standing**

**Grades: 9-12**

**Credit: 0.25**

Intensive/CTE courses provide a specific introduction to a variety of topics, typically career/technical subject areas, often in the form of discrete units or modules. Students may choose to take courses later that allow them to pursue the topics introduced in more depth.

## **Intensive/Exploratory**

**Course # N22250**

**Length: 2 Weeks**

**Prerequisite: High School Standing**

**Grades: 9-12**

**Credit: 0.25**

Intensive / exploratory courses provide a brief introduction to a variety of topics, typically elective subject areas, often in the form of discrete units or modules. Students may choose to take courses later that allow them to pursue the topics introduced in more depth. Topics may vary widely and span multiple subject areas within one course.

## **Internship**

**Course N22998**

**Grades: 11-12**

**Length: 1-2 Semesters**

**Credit: 0.5-1**

**Prerequisite: Approval of Building Administrator and Pending Placement by Internship Coordinator**

Workplace Experience courses provide students with experience in a field related to their desired career and/or in coordination with post-secondary planning. Goals are set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Specific guidelines and requirements are available in the DBSD Internship Handbook.

## **Intro to Computer Technology**

*Recommended*

**Course # X10001**

**Grades: 9-12**

**Length: 1 Semester**

**Credit: 0.5**

**Prerequisite: High School Standing or Approval of Instructor**

Introduction to Computer courses introduce students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, possible applications of computers, and occupations related to computer hardware and software. These courses typically explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students may also be required to perform some computer operations.

## **Mac Tech - Apple Certification**

**Course # N10251**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: High School Standing or Approval of Instructor**

The Mac Tech course provides hands on instruction in computer maintenance focusing primarily on hardware systems and learning about how to troubleshoot the operating system. Apple Mac Tech certification is the goal of this course and students are expected to prepare for and take the Apple exam for this certification. Training includes but is not limited to tasks such as: installation, configuration, diagnosing, preventive maintenance, basic networking, security, safety, and environmental issues. Students are also instructed in professional ethics for technology usage.

## **Small Engine Mechanics**

**Course # N20110**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Small Engine Mechanics courses provide students with the opportunity to learn how to service and recondition small engines, typically emphasizing two- and four-cycle engines. These courses provide students with opportunities to troubleshoot and repair speed controls, lubrication, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts' catalogs. Applications may include lawn mowers, tractors, tillers, power tools, and so on.

## **Welding I**

**Course # N13207**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Welding enable students to gain knowledge of the properties, uses, and applications of various metals, skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes), and experience in identifying, selecting, and rating appropriate techniques. Welding includes instruction in interpreting blueprints or other types of specifications. In this course students learn basic safety skills then move into introductory welding skills.

## **Welding II**

**Course # N13208**

**Length: 1-2 Semesters**

**Prerequisite: Welding I or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Welding enable students to gain knowledge of the properties, uses, and applications of various metals, skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes), and experience in identifying, selecting, and rating appropriate techniques. Welding includes instruction in interpreting blueprints or other types of specifications. In this course students expand on the skills introduced in welding I and learn additional welding skills

## ELECTIVES

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Graduation Requirement  
5.5 credits

### **Art Appreciation**

**Course # X05151**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Art Appreciation courses introduce students to the many forms of art and help them form an aesthetic framework through which they can judge and critique art of various ages and cultures. These courses also explore the place and significance of art in our society.

### **Art (Visual) – Special Topics**

**Course # N05197**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Visual Art Independent Study courses, often conducted with instructors or professional artists as mentors, enable students to explore a particular art form or topic. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills.

### **Art (Visual) – Studio**

**Course # X05154**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Creative Art-Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

## **Band**

**Course # X05101**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of non-specified band literature styles (concert, marching, orchestral, and modern styles).

## **Choir**

**Course # X05110**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

## **Classroom/Office Aide**

**Course # N22051**

**Length: 1 Semester**

**Prerequisite: Approval of Instructor**

**Grades: 10-12**

**Credit: 0.5**

Office Aide courses provide students with developing skills related to clerical office work. Duties may include typing, filing, record-keeping, receiving visitors, answering the telephone, and duplicating, among others. These courses emphasize appropriate work attitudes, human relations, and proper office procedures.

### **Civil Air Patrol**

**Course # N09501**

**Length: 1-2 Semesters**

**Prerequisite: Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

The Civil Air Patrol Cadet Program offer an exciting form of character education that uses the students' enthusiasm for aviation, space, and technology as a motivator. As an in-school program, Civil Air Patrol is an alternative to Junior ROTC – a program only possible in the large schools in the State. The Cadet Program is a self-paced program of sixteen achievements. Cadets complete one task in each element of cadet life – leadership, aerospace, fitness, and character – during each achievement. There is a degree of academic rigor to the program; cadets study their textbooks and must pass written tests to advance. Along the way, cadets earn promotions, acquire new leadership responsibilities, and collect awards.

### **Cooking/Culinary Arts**

**Course # N22202**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Food and Nutrition courses provide students with an understanding of food's role in society, instruction in how to plan and prepare meals, experience in the proper use of equipment and utensils, and background on the nutritional needs and requirements for healthy living. Some classes place a heavier emphasis on the nutritional components of a balanced diet, while others concentrate on specific types of food preparation. Although these courses may present career opportunities in the foodservice industry, their emphasis is not career-related.

### **Intensive/Exploratory**

**Course # N22250**

**Length: 2 Weeks**

**Prerequisite: High School Standing**

**Grades: 9-12**

**Credit: 0.25**

Intensive/exploratory courses provide a brief introduction to a variety of topics, typically elective subject areas, often in the form of discrete units or modules. Students may choose to take courses later that allow them to pursue the topics introduced in more depth. Topics may vary widely and span multiple subject areas within one course.

## **Leadership**

**Course # N22101**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Leadership courses are designed to strengthen students' personal and group leadership skills. Typically intended for students involved in extracurricular activities (especially as officers of organizations or student governing bodies), these courses may cover such topics as public speaking, effective communication, human relations, parliamentary law and procedures, organization and management, and group dynamics.

## **Music – Independent Studies**

**Course # X05147**

**Length: 1-2 Semesters**

**Prerequisite: Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Music – Independent Studies courses, often conducted with instructors, professional musicians, or voice coaches as mentors, enable students to explore music-related topics. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills.

## **Study Hall**

**Course # N22006**

**Length: 2 Semesters**

**Prerequisite: Recommendation of Teacher and Approval of Principal**

**Grades: 9-12**

**Credit: None**

Study Hall courses provide students with the opportunity and time to complete classroom assignments or school projects. Students typically work on their own, without the help of a tutor; however, they are supervised and usually remain in the classroom.

## **Study Skills**

**Course # N22003**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Recommendation of Teacher and Approval of Principal**

Study Skills courses prepare students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate organized, logical thinking and writing.

## **Robotics**

**Course # N21009**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Approval of Instructor**

Robotics courses develop and expand students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, pneumatics, computer basics, and programmable logic controllers.

## **Tutoring Practicum**

**Course # N22054**

**Grades: 10-12**

**Length: 1-2 Semesters**

**Credit: 0.5-1**

**Prerequisite: Approval of Instructor**

Tutoring Practicum courses provide students with the opportunity to offer tutorial assistance to their peers or to younger students. After an initial training period during which students learn how to work with other students and how to make use of the available resources (e.g., staff, written material, audiovisual aids, and so on), students engage in tutoring and assisting others who need or request help.

## **Yearbook**

**Course # N11102**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Yearbook is a photojournalism courses that expose students to the manner in which photography is used to convey information and experiences. Coordinated with production of the yearbook, this photojournalism course provides students with the opportunity to improve their photo composition and film development skills, and to apply their art to journalistic endeavors. Specific focus on photography materials, processes, and the artistic techniques of taking artistic photographs may also be included upon instructor discretion.

## FOREIGN LANGUAGES

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Recommended

### German I

**Course # X06201**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Designed to introduce students to German language and culture, German I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. German culture is introduced through the art, literature customs, and history of the German-speaking people.

### German II

**Course # X06202**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of German I or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

German II courses build upon skills developed in German I, extending students' ability to understand and express themselves in German and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passage that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of German-speaking people to deepen their understanding of the culture(s).

### Spanish I

**Course # X06101**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish speaking people. (Offered Every Other Year at some sites)

## **Spanish II**

**Course # X06102**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Spanish I or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s). (Offered every other year at some sites)

## LANGUAGE ARTS

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Graduation Requirement  
4 credits (8 semesters)

### **American Literature**

**Course # X01054**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

American Literature courses focus upon commonly known American authors and their work. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of literature courses, and written compositions are often required.

### **British Literature**

**Course # X01056**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

British Literature courses may provide a survey of British literature or may focus on a selected timeframe of England's history. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of literature courses, and written compositions are often required.

### **Classic/Contemporary Literature**

**Course # X01053**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Classic and Contemporary Literature courses offer the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses, and written compositions are often required. Literature courses may survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people.

## **Creative Writing**

**Course # X01104**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Creative Writing courses offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting).

## **English 9**

**Course # X01001**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grade: 9**

**Credit: 1.0**

English/Language Arts I (9<sup>th</sup> grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

## **English 10**

**Course # X01002**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of English 9 or Approval of Instructor**

**Grade: 10**

**Credit: 1.0**

English/Language Arts II (10<sup>th</sup> grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

## **English 11**

**Course # X01003**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of English 10 or Approval of Instructor**

**Grade: 11**

**Credit: 1.0**

English/Language Arts III (11<sup>th</sup> grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

## **English 12**

**Course # X01004**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of English 11 or Approval of Instructor**

**Grade: 12**

**Credit: 1.0**

English/Language Arts IV (12<sup>th</sup> grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

## **Sustained Silent Reading/**

### **Literature (SSR/Lit)**

**Course # X01066**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Strategic Reading courses are intended to improve a student's vocabulary, critical-thinking and analysis skills, or reading rate and comprehension level. Although these courses typically emphasize works of fiction, they may also include works of nonfiction (including textbooks). Strategic Reading courses often have a time-management focus, offering strategies for note-taking or for understanding and evaluating the important points of a text.

### **Technical Writing**

**Course # X01105**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Research/Technical Writing classes prepare students to write research papers and/or technical reports. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.

### **World Literature**

**Course # X01058**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

World Literature courses use representative literature selections from ancient and/or modern times from countries around the world. Students improve their critical-thinking skills, as they comprehend the diversity of literary traditions and the influences of those traditions. Oral discussion is an integral part of literature courses, and written compositions are required.

## MATHEMATICS

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Graduation Requirement  
4 credits (8 semesters)

### Accounting

**Course # N12104**

**Length: 2 Semesters**

**Prerequisite: Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Accounting courses introduce and expand upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

### Algebra I

**Course # X02052**

**Length: 2 Semesters**

**Prerequisite: High School Standing or approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

### Algebra IA

**Course # X02053**

**Length: 2 Semesters**

**Prerequisite: High School Standing or approval of instructor**

**Grades: 9-12**

**Credit: 1.0**

The first part in a multipart sequence of Algebra I. This course generally covers the same topics as the first semester of Algebra I, including the study of properties of rational numbers (i.e., number theory), ratio, proportion, and estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

## **Algebra IB**

**Course # X02054**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Algebra IA or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

The second part in a multipart sequence of Algebra I. This course generally covers the same topics as the second semester of Algebra I, including the study of properties of the real number system and operations, evaluating rational algebraic expressions, solving and graphing first-degree equations and inequalities, translating word problems into equations, operations with and factoring of polynomials, and solving simple quadratics.

## **Algebra II**

**Course # X02056**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Algebra I or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic exponents equations; properties of higher degree equations; and operations with rational and irrational exponents.

## **AVTEC Mathematics for the Trades**

**Course # X02152**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Algebra I or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

AVTEC Math is a Workplace Experience mathematics. The course provides students with workplace skills in a field related to mathematics. This course provides classroom activities, involving further study of the field or discussion regarding math experiences that students encounter in the workplace.

## **College Mathematics**

**Course # X02138**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Geometry and Algebra II or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

College Mathematics covers topics from both Math Analysis and Analytic Geometry; these courses prepare students for eventual work in calculus. Topics include the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity the polar coordinate system; equations and graphs of conic sections; rotations and transformations; and parametric equations.

## **Calculus**

**Course # X02121**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Pre-Calculus or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of precalculus topics (some combinations of trigonometry, elementary functions, analytic geometry, and math analysis).

## **Data Science**

**Course # X02999**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Algebra I or Approval of Instructor**

**Grades: 11-12**

**Credit: 1.0**

This Data Science course engages students with opportunities to understand the data science process including asking questions, gathering and organizing data, modeling, analyzing and synthesizing, and communicating. Students learn through making sense of complex problems, then through an iterative process of formulation and reformulation come to a reasoned argument for the choices they will make. Students develop their understanding of data analysis, sampling, correlation/causation, bias and uncertainty, modeling with data, making and evaluating data-based arguments, and the importance of data in society. Students also develop their explanatory writing skills through communication at every stage of the data science process. This course can also be taken for science, CTE, or elective credit.

## **General Math**

**Course # X02002**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Recommendation of Instructor**

General Math courses (areas of study such as Consumer Mathematics) reinforce and expand students' foundational math skills such as arithmetic operations using rational numbers; area, perimeter, and volume of geometric figures, congruence and similarity, angle relationships, the Pythagorean theorem, the rectangular coordinate system, set and logic, ratio and proportion, estimation, formulas, solving and graphing simple equations and inequalities.

### **Geometry**

**Course # X02072**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Successful Completion of Algebra I or Approval of Instructor**

Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

### **Introduction to Logic**

**Course # X02990**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Successful Completion of Algebra I or Approval of Instructor**

This course is an introduction to Logic from a computational perspective. It shows how to encode information in the form of logical sentences; it shows how to reason with information in this form; and it provides an overview of logic technology and its applications - in mathematics, science, engineering, business, law, and so forth. Skills you will gain include: Relational Algebra, Problem solving, Propositional Calculus, Mathematical Logic.

### **Pre-Algebra**

**Course # X02051**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Successful Completion of Middle School Mathematics or Approval of Instructor**

Pre-Algebra courses increase students' foundational math skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e.,

number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, set and logic, formulas, and solving first-degree equations and inequalities.

### **Pre-Calculus**

**Course # X02110**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Successful Completion of Trigonometry or Approval of Instructor**

Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverse and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic, mathematical induction; matrix algebra; sequences and series; and limits and continuity.

### **Statistics and Probability**

**Course # X02201**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: High School Standing or Approval of Instructor**

Probability and Statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.

### **Trigonometry**

**Course # X02103**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Successful Completion of Algebra II or Approval of Instructor**

Trigonometry courses prepare students for eventual work in calculus and typically include the following topics; trigonometric and circular functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers.

**General progression of DBSD Mathematics Courses:**

**Algebra I  
Geometry  
Algebra II  
Trigonometry/ Pre-Calculus  
Calculus**

Upon teacher recommendation and site administrator approval some students will be advised and scheduled into a General Math course such as Consumer Math Probability and Statistics or AVTEC Math either before or after Algebra II or may take courses in a revised sequence.

Entry point of Pre-Algebra, Algebra I, or Algebra II for incoming 9th grade students is based on teacher recommendation and site administrator approval; additionally, with teacher recommendation and site administrator approval 8th grade students may be considered for Algebra I enrollment.

## PHYSICAL EDUCATION/ HEALTH EDUCATION

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Graduation Requirement  
1.0 Credit PE, 0.5 Credit Health

### **Anatomy & Physiology**

**Course # X03054**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Anatomy & Physiology is also listed as a Science course as the course components align with both physical education and science standards.

Anatomy courses present an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. Physiology courses examine all major systems, tissues, and muscle groups in the human body to help students understand how these systems interact and their role in maintaining homeostasis. These courses may also cover such topics as cell structure and function, metabolism, and the human life cycle.

### **Fitness**

**Course # N08005**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness.

### **Health Education**

**(0.5 credits required)**

**Course # N08051**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may

also include brief studies of environmental health, personal development, and/or community resources.

**Physical Education\***

**(1 credit required can be waived with sports waiver)**

**Course # N08001**

**Length: 1 Semester**

**Grades: 9-12**

**Credit: 0.5**

Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

## SCIENCE

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Graduation Requirement  
3 credits (6 semesters)

### **Anatomy & Physiology**

**Course # X03054**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Anatomy & Physiology is also listed as a Physical Education/Health Education course as the course components align with both physical education and science standards.

Anatomy courses present an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. Physiology courses examine all major systems, tissues, and muscle groups in the human body to help students understand how these systems interact and their role in maintaining homeostasis. These courses may also cover such topics as cell structure and function, metabolism, and the human life cycle.

### **Biology I**

**Course # X03051**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

### **Biology II**

**Course # X03052**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Biology I or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Biology II courses cover biological systems in more detail. Topics that may be explored include cell organization, function, and reproduction; energy transformation; human anatomy and physiology; and the evolution and adaptation of organisms.

## **Chemistry**

**Course # X03101**

**Length: 2 Semesters**

**Prerequisite: Successful Completion of Algebra I and Enrollment in Algebra II or Approval of Site Administrator**

**Grades: 9-12**

**Credit: 1.0**

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

## **Earth Science**

**Course # X03001**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

## **Environmental Science**

**Course # X03003**

**Length: 1-2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5-1**

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

## **Forensic Science**

**Course # X03214**

**Length: 1-2 Semesters**

**Prerequisite: Physical Science and Biology or Approval of Instructor**

**Grades: 11-12**

**Credit: 0.5-1.0**

Forensic Laboratory Science courses involve the application of biological, chemical, and physical science principles to data and physical evidence related to evidence collection and analysis. The courses focus on the application of scientific knowledge and scientific principles to collect, preserve, and analyze evidence in a laboratory setting. Topics may include but are not limited to entomology, forensic anthropology, serology, and fingerprinting.

## **Geology**

**Course # X03002**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Geology provides an in-depth study of the forces that formed and continue to affect the earth's surface. Earthquakes, volcanoes, and erosion are examples of topics that are presented.

## **Life Science**

**Course # X03099**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1**

Life Science is a comprehensive course which provides a solid foundation for Biology courses. Topics include explanations of cellular structure, respiration, enzymes, genetics, and adaptation. Also included are the structure, function, and care of the human body, as well as concepts of adaptation and survival, conservation, and ecology, drugs and human behavior, and environmental pollution.

## **Physical Science**

**Course # X03159**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Physical Science courses involve study of the structures and states of matter. Typically offered as a survey course, topics include the forms of energy, electromagnetism, wave phenomenon and physical and chemical interactions.

## **Physics**

**Course # X03151**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: Successful Completion of Algebra I and enrollment in Algebra II or Approval of Site Administrator**

Physics courses involve the study of forces and law of affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

## **Zoology**

**Course # X03061**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: High School Standing or Approval of Instructor; Successful Completion of Biology I is Recommended**

Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. These courses should also help students develop and awareness and understanding of biotic communities.

## SOCIAL STUDIES

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Graduation Requirement  
3 credits (6 semesters)

### **Alaska History**

**(0.5 credits required)**

**Course # X04105**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Alaska History courses examine the history, politics, economics, society, and/or cultures of one state in the United States. This course may focus primarily on the history of the state or may take an interdisciplinary approach to the contemporary issues affecting it.

### **Anthropology**

**Course # X04251**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Anthropology courses introduce students to the study of human evolution with regard to the origin, distribution, physical attributes, environment, and culture of human beings. These courses provide an overview of anthropology, including but not limited to both physical and cultural anthropology.

### **AP U.S. Government and Politics**

**Course # X04157**

**Length: 2 Semesters**

**Prerequisite: Government and U.S. History or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

Following the College Board's suggested curriculum designed to parallel college-level U.S. Government and Politics courses, this course provides students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. The course generally covers the constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, and civil rights and liberties.

## **AP U.S. History**

**Course # X04104**

**Length: 2 Semesters**

**Prerequisite: U.S. History or Approval of Instructor**

**Grades: 11-12**

**Credit: 1.0**

Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History courses provide students with the analytical skills and factual knowledge necessary to address critical problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past.

## **Civics**

**Course # X04161**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Civics examines the general structure and functions of U.S. systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. This course does not delve to the same degree of detail into constitutional principles or the role of political parties and interest groups as do comprehensive courses in United States Government.

## **Economics**

**Course # X04201**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

## **Particular Topics in Geography**

**Course # X04002**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Particular Topics in Geography courses examine a particular topic in geography, such as physical or cultural geography, or the geography of a particular area or region, rather than provide an overview of the field.

## **Psychology**

**Course # X04254**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Psychology courses introduce students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

## **Sociology**

**Course # X04258**

**Length: 1 Semester**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 0.5**

Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

## **U.S. Government**

(Required)

**Course # X04151**

**Length: 2 Semesters**

**Prerequisite: High School Standing or Approval of Instructor**

**Grades: 9-12**

**Credit: 1.0**

U.S. Government Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

## **U.S. History**

**(Required)**

**Course # X04101**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: High School Standing or Approval of Instructor**

United States History (comprehensive) courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

## **Western Civilization**

**Course # X04051**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: High School Standing or Approval of Instructor**

This course is designed to give the student a general understanding of those intellectual trends which have flourished in the West from the fourteenth century through the dawn of the 21<sup>st</sup> century. Our focus is primarily European although peripheral issues which take us outside the Continent will be considered as well. The general theme which holds the course together is what I call the "world view," that is, the collection of mental constructs which gives the world meaning to each and every one of us. Our task is to uncover and investigate world views as they appear throughout this 700-year block of time. In the end, you will have an excellent grasp of what is meant by the expression, the "Western intellectual tradition," and this is important because that tradition is also your tradition.

## **World History**

**Course # X04051**

**Grades: 9-12**

**Length: 2 Semesters**

**Credit: 1.0**

**Prerequisite: High School Standing or Approval of Instructor**

World History courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History courses may include geographical studies, but often these components are not as explicitly taught as geography.

## UAF High School Advantage - Online

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DBSD has joined with UAF to offer all courses available through their online dual credit High School Advantage program to high school students enrolled in DBSD schools. Please talk with your guidance counselor and principal if you are interested in taking any of these courses. To find out more about this program visit <https://ecampus.uaf.edu/highschool/>. These dual credit courses can be used for graduation credits in the appropriate subject area.

**\*\*All courses offered 100% online require specific documentation, for courses listed above variations to the naming and numbering system may occur. The district Skyward Help Desk can provide individual schools guidance in setting this up at time of enrollment, please contact them for assistance if you have any questions concerning online courses.**

## Contacting the Denali Borough School District

Have questions? Need assistance? Do you need help working through a concern about district procedures?

First, talk to the person involved, to the teacher, or the site administrator about the situation. If the problem cannot be solved at the school, call the appropriate administrative office:

Website: [www.dbsd.org](http://www.dbsd.org)

<p><b>Superintendent</b>          Dan Polta          P.O. Box 280          Healy, AK 99743          Phone: (907) 683-2278          FAX: (907) 683-2514</p>	<p><b>Anderson School</b>          Uwe Hoffmann          Lead Teacher          P.O. Box 3120          Anderson, AK 99744          Phone: (907) 582-2700          FAX: (907) 582-2000</p>
<p><b>Director of Teaching and Learning</b>          Karen Martin          P.O. Box 280          Healy, AK 99743          Phone: (907) 683-2267</p>	<p><b>Tri-Valley School</b>          Tobe Gurley          Principal          P.O. Box 400          Healy, AK 99743          Phone: (907) 683-2267          FAX: (907) 683-2632</p>
<p><b>Denali PEAK          Correspondence/Homeschool          Special Education Director          Federal Programs</b>          Jennifer Mason          Principal          Garin Martin          Assistant Principal          P.O. Box 280          Healy, AK 99743          Phone: (907) 563-0990</p>	<p><b>Cantwell School</b>          Marie Gore          Lead Teacher          P.O. Box 29          Cantwell, AK 99729          Phone: (907) 768-2372          FAX: (907) 768-2500</p>

This district website contains a wealth of information regarding the Denali Borough School District including board meeting minutes, the district policy manual, the Strategic Plan, email addresses, and many other helpful pieces of information.

Citizen complaint forms are available at school offices.