

WELCOME  
CLASS OF 2022



JAMES T. HUTCHISON  
HIGH SCHOOL  
Student Course Planner  
2018-2019

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References Key  
 A = Alaska Performance Scholarship (APS) Approved  
 N = National Collegiate Athletic Assoc. (NCAA) Approved  
 R = Repeatable Courses

References are located at the end of each course description

**Important: APS and NCAA requirements/approvals are subject to change without notice.  
 This information is provided as a guideline to assist you in planning. Be sure to check current eligibility lists online at:**

<http://www.k12northstar.org/Page/2951>

**Please contact the Department of Teaching & Learning with any questions at (907) 452-2000, ext. 11477.**

# INTRODUCTION

Driven by a desire to better prepare graduates for college and careers, the Alaska Department of Education & Early Development, with the support of Alaska educators and stakeholders, created English/Language Arts and Mathematics Standards to adequately prepare Alaskan students to compete globally. The more rigorous academic standards clearly outline what students should know and be able to do at each grade level to be globally competitive and were adopted by the State Board of Education in June 2012. These standards indicate how well students at a particular age are expected to perform in reading, writing, and mathematics. The Fairbanks North Star Borough School District (FNSBSD) has made a formal commitment to the standards. This commitment is reflected in the district's adopted curricula.

The school district's curriculum goal is to provide all students with an excellent educational program that not only meets basic academic needs, but also sets high expectations and provides opportunities for each student to excel and develop individual talents.

This High School Course Planner lists courses adopted by the FNSBSD Board of Education that are offered at Hutchison High School. The school's schedule is structured based on enrollment requests and programming needs. Therefore, some courses listed in this planner may not be available. Those interested in more detailed information may also refer to the comprehensive subject area curriculum guides available in schools, from the Department of Teaching & Learning at the school district's administrative center, or posted on the district's website:

<http://www.k12northstar.org/CurrGuide>

Curriculum questions that cannot be answered at the school building level should be referred to the Department of Teaching & Learning.

Curriculum development and revision in the FNSBSD is an ongoing process that involves community, staff, students, and the School Board. The Curriculum Advisory Committee (CAC) also provides input in the curriculum development process to reflect the perspectives, values, and beliefs of parents, the community, and the School Board. Curricular issues of interest to parents, students, and staff are also addressed by the CAC prior to being forwarded to the School Board for adoption.

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## How to Use this Planner

This catalog is designed to help you develop a program of study at Hutchison High School. As you develop your program, remember to select courses that meet graduation and Alaska Performance Scholarship requirements, prepare you for the SAT, ACT, WorkKeys, and meet your interests, ability levels, and goals for the future. Please keep in mind that we do not offer all the classes listed in this catalog each year.

Your program at Hutchison High School will consist of six classes per semester. In general, you will earn .50 (or ½) credit upon successful completion (D- and better) of a semester-long class. Graduation requirements are listed in the appendix.

As you develop your program of study and select your courses, you should consider the following steps:

Step 1: Decide where you want to be as you complete your high school career. Which of the following options do you want to have open for yourself following high school?

- Direct entry into employment
- Specific training program other than college
- Two-year college degree program
- Four-year college degree program

Step 2: Develop your four-year plan.

- Keep in mind our graduation requirements, Alaska Performance Scholarship requirements, and courses recommended by any post-secondary college or vocational program.
- Review the course offerings and prerequisites in each subject area.
- Enter your chosen classes on the credit work sheet.
- Consider alternative programs and options. Be aware of all possibilities.
- If you are a college-bound student athlete, it is your responsibility to make sure the courses you select at Hutchison High School meet NCAA (National Collegiate Athletic Association) requirements. For more information consult with your counselor and visit the NCAA website: [www.eligibilitycenter.org](http://www.eligibilitycenter.org)
- It is your responsibility to make sure the courses you select at Hutchison High School meet the APS (Alaska Performance Scholarship) requirements. For more information, consult with your counselor and visit the APS website: <https://www.k12northstar.org/Page/2951>.

# **JAMES T. HUTCHISON HIGH SCHOOL**

## **Mission Statement**

Career & Technical Education Advisory Council (FNSBSD 03/18/08)

James T. Hutchison High School, an integrated learning environment within a culturally diverse community, where academic and career-technical experiences facilitate success in continued education, skilled employment, civic responsibility, and personal integrity.

## **Core Values**

- A secure and positive environment
- Honesty, integrity and respect
- Recognizing and seizing productive opportunities
- Developing employability skills such as reliability, creativity, productivity, and self-determination
- Active and responsible students, families, and community
- Regular attendance, a support network, adequate rest, proper nutrition, and an abuse-free lifestyle

## **JAMES T. HUTCHISON HIGH SCHOOL IS**

- A school of choice for a student interested in a high quality technical career that will lead to employment, postsecondary technical/trade school training, apprenticeships, or college.
- A school that actively works with business, industry, university systems (UAF/CTC), and parents/guardians to form partnerships that promote academic and career development.
- A school that has exceptional career and technical student organizations designed to develop leadership, problem solving, critical thinking, and specific employment skills for students.  
(i.e., Skills USA, HOSA, Academic Decathlon)



# **James T. Hutchison High School Career Technical Courses**

**School Year  
2018 – 2019**

# Certification Opportunities

(Check with the Instructor regarding testing and additional requirements)

<b>Career Cluster</b>	<b>Certification</b>	<b>Issuing Organization</b>
<b>Architecture &amp; Construction</b>		
Building Trades 1A, 1B	National Registry	NCCER Natl. Center for Const. Ed. & Research
Building Trades 2A, 2B	National Registry	NCCER
Building Trades 3A, 3B	National Registry	NCCER
Building Trades 4A, 4B	National Registry	NCCER
Welding	National Registry	AWS
<b>Health Science</b>		
Certified Nursing Assistant	Certified Nurse Assistant (CNA)	Alaska State Board of Nursing
Emergency Trauma Technician	Emergency Trauma Tech I (ETT)	State of Alaska
Emergency Medical Technician	Emergency Medical Tech I (EMT)	State of Alaska
CPR	CPR	American Heart Association
First Aid	First Aid	American Heart Association
<b>Information Technology (IT)</b>		
IT Essentials 1A & 2B	A+ Certification	Comp TIA Computing Technology Industry Association
Computer Networking	CISCO Certified Entry Networking Technician CCENT	CISCO Systems Cisco Certification Network Association
<b>Transportation, Distribution &amp; Logistics (TDL)</b>		
Collision Repair Technician	I CAR	I CAR Inter-Industry Conference on Auto Collision Repair
Small Engines	EETC	EETC Equipment & Engine Training Council

# INTRODUCTORY & CAPSTONE COURSES

## INDEPENDENT RESEARCH

(10-12) COURSE # (See Below) Elective

Length: 1 Semester = .5 Credit

Prerequisite: Completion of all course offerings in a specific career cluster and Teacher Recommendation

Fee: None

**Course Description:** *Independent Research* is designed to meet the learning needs of students who have completed all the course offerings in a specific career cluster. Students and the teacher will select the area of study in this course. A contract will be developed stating the type of work to be done and listing a timeline to be followed for completion of the work. (**R: only if all other CTE pathway options are exhausted.**)

## INDEPENDENT RESEARCH COURSE NUMBERS

Architecture & Construction	CTEC510
Arts, A-V Technology & Communications	CTEM610
Health Science	CTEK590
Information Technology	CTEF540
Transportation, Distribution & Logistics	CTEE530





# **ARCHITECTURE & CONSTRUCTION CLUSTER**

# **ARCHITECTURE & CONSTRUCTION CLUSTER**

## **Year 1**

**S1 - Building Trades 1A**

**S2 - Building Trades 1B**

**or**

**S1 - Drafting 1A**

**S2 - Drafting 1B (Completion of both 1A & 1B are required to be eligible for concurrent Tech Prep Credits)**

## **Year 2**

**S1 - Building Trades 2A**

**S2 - Building Trades 2B**

**or**

**S1 - Computer- Aided Drafting (CAD) 1A**

**S2 - Computer- Aided Drafting (CAD) 1B**

**(Completion of both 1A & 1B are required to be eligible for concurrent Tech Prep Credits)**

**or**

**S1 - Welding 1A**

**S2 - Welding 1B (Completion of both 1A & 1B are required to be eligible for concurrent Tech Prep Credits)**

## **Year 3**

**S1 - Building Trades 3A**

**S2 - Building Trades 3B**

**or**

**S1 - Architectural Drafting 1A**

**S2 - Architectural Drafting 1B (Completion of both 1A & 1B are required to be eligible for concurrent Tech Prep Credits)**

**or**

**S1 - Welding 2A**

**S2 - Welding 2B**

## **Year 4**

**S1 - Building Trades 4A**

**S2 - Building Trades 4B**

**or**

**S1 - Independent Research: Welding**

**S2 - Independent Research: Welding**

# ARCHITECTURE & CONSTRUCTION

## **BUILDING TRADES 1A/1B**

**(9-12)** CTEC3011/3022 Elective  
**Length:** 1 or 2 Semesters = .5 Credit per semester  
**Prerequisite:** Algebra I (may be concurrently enrolled)  
**Fee:** Required (\$20 maximum)

**Course Description:** *Building Trades 1A/1B* is designed to introduce students to basic construction technical skills. Shop safety concepts will be emphasized along with the introduction of commonly used hand and power tools. There will also be an emphasis on promoting employability skills such as critical thinking/problem-solving, communication skills and teamwork. These skills will be reinforced through hands-on experiences.

## **BUILDING TRADES 2A/2B**

**(10-12)** CTEC3033/3044 Elective  
**Length:** 1 or 2 Semesters = .5 Credit per semester  
**Prerequisite:** Building Trades 1A/1B or Teacher Recommendation  
**Fee:** Required (\$20 maximum)

**Course Description:** *Building Trades 2A/2B* is designed for students who have taken *Building Trades 1A/1B* or equivalent. The course will guide/challenge students toward a greater development of craft skills and knowledge related to the residential and commercial carpentry industry. Students will also learn will learn how to install doors and windows using a variety of hand and power tools. In *Building Trades 2B*, students will learn how to construct basic foundations, floors, walls, and common roof systems.

## **BUILDING TRADES 3A/3B**

**(11-12)** CTEC3055/3066 Elective  
**Length:** 1 or 2 Semesters = .5 Credit per semester  
**Prerequisite:** Building Trades 1A/1B and Building Trades 2A/2B  
**Fee:** Required (\$20 maximum)

**Course Description:** *Building Trades 3A/3B* is for students who have taken Building Trades 2A/2B and want to continue learning about residential and commercial carpentry. Students will expand their knowledge of building materials and become more proficient interpreting project plans. As the course progresses, students will develop a knowledge of finish carpentry and cabinetmaking. Students will learn how to build and install a cabinet.

## **BUILDING TRADES 4A/4B**

**(12)** CTEC3077/3088 Elective  
**Length:** 1 or 2 Semesters = .5 Credit per semester  
**Prerequisite:** Building Trades 1A/1B, Building Trades 2A/2B, and Building Trades 3A/3B  
**Fee:** Required (\$20 maximum)

**Course Description:** In *Building Trades 4A/4B*, students will continue to practice technical skills that were learned in Building Trades 1-3. Students will also develop leadership skills related to the construction industry by mentoring and supervising students in Building Trades 1-3. In addition to the role of a mentor, students will also be assigned a capstone project based in the assessed needs of the individual student. The teacher and student will determine what skills should be emphasized in the capstone project and an appropriated project(s) will be assigned. This will allow the teacher to differentiate instruction for each student. This course is by teacher recommendation only. Recommendations will be submitted to students by the end of the successful completion of *Building Trades 3A/3B*.

## **DRAFTING 1A**

**(9-12)** CTEC101 Elective  
**Length:** 1 Semester = .5 Credit  
**Prerequisite:** None

**Fee: Required (\$15 maximum)**

**Course Description:** *Drafting 1A* will introduce students to basic skills of drafting, including pictorial representations, drawing tools, layout, scale, and introduction to Computer-Assisted Drafting (CAD). Students will focus on illustrating two-dimensional working drawings as well as three-dimensional isometric and oblique drawings, including proper dimensions. This course is a prerequisite to all other drafting courses and provides a foundation for reading and drawing plans in the construction and manufacturing industry.

### **DRAFTING 1B**

**(9-12) CTEC102 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: *Drafting 1A***

**Fee: Required (\$15 maximum)**

**Completion of both Drafting 1A & 1B are required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Drafting 1B* is a continuation of *Drafting 1A*. Students will gain experience in the use of Computer-Assisted Drafting (CAD), illustrating advanced pictorial drawings such as isometric, oblique pictorials auxiliary views, and perspective drawings. Students will also learn basic architectural drafting skills and use the skills to draw multiple views of a residential home.

### **COMPUTER-AIDED DRAFTING (CAD) 1A**

**(10-12) CTEC103 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Drafting 1A or Teacher Recommendation**

**Fee: Required (\$15 maximum)**

**Course Description:** *Computer-Aided Drafting 1A* provides an understanding of the features, limitations, and considerations associated with the operation of a computer-based drafting system. Students will gain experience using CAD software and associated plotters, printers, etc. Students will progress in a self-paced curriculum incrementally developing CAD competency as demonstrated by drawings that are produced throughout the course.

### **COMPUTER-AIDED DRAFTING (CAD) 1B**

**(10-12) CTEC104 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Computer-Aided Drafting 1A**

**Fee: Required (\$15 maximum)**

**Completion of both CAD Drafting 1A & 1B are required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Computer-Aided Drafting 1B* emphasizes CAD techniques such as 3D applications, rendering and working drawings. Projects are self-paced and require a high degree of self-motivation and discipline in order to attain the completion of the course.

### **ARCHITECTURAL DRAFTING 1A**

**(9-12) CTEC105 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Drafting 1A & 1B**

**Fee: Required (\$15 maximum)**

**Course Description:** *Architectural Drafting 1A* exposes students to the basic elements of architectural design, building code, site considerations, and mechanical considerations involved in drafting multiple representations of residential and commercial structures.

### **ARCHITECTURAL DRAFTING 1B**

**(9-12) CTEC106 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Architectural Drafting 1A**

**Fee: Required (\$15 maximum)**

**Completion of both Architectural Drafting 1A & 1B are required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Architectural Drafting 1B* continues and completes an introductory in architectural designs and drafting. Students will complete a large project pertaining to a design of a residential or commercial building. The design plan will include site plans, elevation drawings, floor plans, and detail drawings.

**WELDING 1A**

**(9-12) CTEC501 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$25 maximum)**

**Course Description:** *Welding 1A* will follow the guidelines set forth by the American Welding Society (AWS) for entry-level welders. Throughout the course safety will be the primary consideration as the students gain basic knowledge of shielded Metal Arc Welding, Oxy Acetylene Welding and Cutting, Plasma Cutting, and electrical tools and equipment. Students will also be introduced to basic shop drawings, welding symbols, and basic visual inspections of welds.

**WELDING 1B**

**(9-12) CTEC5022 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Welding 1A**

**Fee: Required (\$25 maximum)**

**Completion of both Welding 1A & 1B are required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Welding 1B* is a continuation of *Welding 1A* and will follow the guidelines set forth by the American Welding Society (AWS) for entry-level welders. Throughout the course, safety will be the primary consideration when students continue to use shielded Metal Arc Welding, Oxy Acetylene Welding and Cutting, Plasma Cutting, and electrical equipment. Students will also learn to read shop drawings, welding symbols, and advanced visual inspection of welds. Students will also learn the basics of the Gas Metal Arc Welding process.

**WELDING 2A**

**(10-12) CTEC5033 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: *Welding 1A/1B***

**Fee: Required (\$25 maximum)**

**Course Description:** *Welding 2A* is a continuation of *Welding 1B* and will follow the guidelines set forth by the American Welding Society (AWS) for entry-level welders. Throughout the course, safety will be the primary consideration when students continue to use shielded Metal Arc Welding, Oxy Acetylene Welding and Cutting, Plasma Cutting, Gas Metal Arc Welding, Flux Cored Arc Welding, Gas Tungsten Arc Welding and related electrical equipment. Students will also learn to read shop drawings, welding symbols, and the advanced visual inspection of welds.

**WELDING 2B**

**(10-12) CTEC5044 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Welding 2A**

**Fee: Required (\$25 maximum)**

**Course Description:** *Welding 2B* is a continuation of *Welding 2A* and will follow the guidelines set forth by the American Welding Society (AWS) for entry-level welders. Throughout the course, safety will be the primary consideration when students continue to use shielded Metal Arc Welding, Oxy Acetylene Welding and Cutting, Plasma Cutting, Gas Metal and Flux Cored Arc Welding, Gas Tungsten Arc Welding and related electrical equipment. Students will also learn to read shop drawings, welding symbols, and the advanced visual inspection of welds.



# **ARTS, AUDIO/VISUAL TECHNOLOGY & COMMUNICATIONS CLUSTER**

# **ARTS, AUDIO/VISUAL TECHNOLOGY & COMMUNICATIONS CLUSTER**

## **Year 1**

**S1 – Foundations of Art A/V**

**S2 - Graphic Design & Multimedia**

## **Year 2**

**S1 - Digital Photography 1A**

**S2 - Digital Photography 1B**

**(Completion of both Digital Photography 1A & 1B are required to be eligible for concurrent Tech Prep Credits)**

**or**

**S1 - Video Production 1A**

**S2 - Video Production 1B**

**(Completion of both Video Production 1A & 1B are required to be eligible for concurrent Tech Prep Credits)**

## **Year 3**

**S1 - Yearbook Publications A**

**S2 - Yearbook Publications B**

**or**

**S1 - Broadcast Journalism 1A**

**S2 - Broadcast Journalism 1B**

## **Year 4**

**S1 - Independent Research – Arts, AV Tech, Com Ctr**

**S2 - Independent Research – Arts, AV Tech, Com Ctr**

# ARTS, A/V TECHNOLOGY & COMMUNICATIONS

## **BROADCAST JOURNALISM 1A**

(10-12) CTEM201 Elective

Length: 1 Semester = .5 Credit

Prerequisite: None

Fee: Required (\$25 maximum)

**Course Description:** *Broadcast Journalism 1A* features extensive hands-on instruction in producing, shooting, and editing news and feature stories for broadcast audiences. Students will work independently and in small groups to record stories using field and studio cameras, tripods, microphones, and lights. Students will frequently view and critically analyze local and national news features. Basic interviewing and newsgathering techniques are a key component of the course. Students will learn how to prepare effective interview questions, find and contact sources, research background information, script voice-over and anchor narration, and meet strict deadlines. Students will use Adobe Premiere Pro to edit together news features. Students will also work co-dependently to combine and produce media intended for mass distribution and viewer awareness. (This will commonly be done via daily announcements program).

## **BROADCAST JOURNALISM 1B**

(10-12) CTEM202 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Broadcast Journalism 1A

Fee: Required (\$25 maximum)

**Course Description:** *Broadcast Journalism 1B* builds on skills mastered in *Broadcast Journalism 1A*. Students will work independently and in small groups to produce, record, and edit news and feature stories for broadcast audiences. Advanced newsgathering techniques will be developed. Field trips to television and production facilities will be offered. Students will independently operate all control room and studio equipment and be familiar with all production jobs. Students will participate in the daily broadcast of school announcements. Students will prepare material for larger scale distribution within the community and beyond. Significant out-of-class time may be required for some projects. Students will create a final portfolio of their work.

## **DIGITAL PHOTOGRAPHY 1A**

(9-12) CTEM401 Elective

Length: 1 Semester = .5 Credit

Prerequisite: None

Fee: Required (\$60 maximum + deposit for use of district camera)

**Course Description:** *Digital Photography 1A* introduces students to digital photography and its application in a wide variety of occupations. Students will learn and utilize the concepts of basic photographic composition including rule of thirds, framing, shapes, lines, color, negative space, etc. Students will also gain an understanding of the facets of the exposure triangle: aperture, shutter speed, and ISO. Students will perform beginner to intermediate camera operations while completing assignments. File management including various import and organization methods will be covered. Students will also be introduced concepts of photo editing using industry appropriate software as well as the aspects of digital image files. Students learn to make critical judgments about their own art and the art of others.

## **DIGITAL PHOTOGRAPHY 1B**

(9-12) CTEM402 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Digital Photography 1A

Fee: Required (\$60 maximum + deposit for use of district camera)

Completion of both Digital Photography 1A & 1B are required to be eligible for concurrent Tech Prep Credits



**Course Description:** *Digital Photography 1B* is a continuation and expansion of the skills students learn in *Digital Photography 1A*. Students will learn about the more advanced functions of a digital camera and digital image editing software as they continue to develop their portfolio. Students also prepare and present their photography in a variety of settings and mediums. Finally, students will begin to discover possible careers in photography and what other training and education is required to enter those careers.

### **FOUNDATIONS OF ART A/V**

**(9-12) CTEM306P Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$15 maximum)**

**Course Description:** *Foundations of Arts A/V* introduces students to the critical skill sets, career outlooks, and technical skills for success in the numerous fields of Arts A/V. This introductory-level course will prepare students for various future endeavors in their study and practice of Arts A/V including equipment operation, computer literacy, introduction to *Adobe Creative Cloud*, and professional practices for Arts A/V careers. This course is meant to provide a solid foundation from which all other courses in the Arts A/V cluster can build upon.

### **GRAPHIC DESIGN & MULTIMEDIA**

**(9-12) CTEJ107 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$10 maximum)**

**Course Description:** *Graphic Design and Multimedia* introduces students to industry-standard graphic design software for use in multimedia projects or presentations. After learning the basic tools and layout of the software, students will use critical thinking to complete practical, career-oriented projects as they integrate text, graphics and photos into professional publications, videos or websites. The course will also include a study of the relevant theories involved in modern graphic design.

### **VIDEO PRODUCTION 1A**

**(9-12) CTEM101 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$25 maximum + deposit for use of district camera)**

**Course Description:** *Video Productions 1A* consists of extensive hands-on instruction in numerous aspects of video production. Students will view and critically analyze a variety of film and video productions and be able to identify their basic ingredients and how they shape and influence our society and culture. Preproduction techniques, including developing basic scripts and storyboards, will be developed. Students will learn production techniques, including the use of cameras in studio and field production, tripods, lights, and microphones. Students will learn postproduction techniques, including non-linear editing, audio integration, title creation and visual effects. Self-motivation and good time management skills are important. Out-of-class work is required for some projects. Students will work alone and in small groups to produce progressively more sophisticated productions throughout the semester.

### **VIDEO PRODUCTION 1B**

**(9-12) CTEM102 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Video Production 1A**

**Fee: Required (\$25 maximum + deposit for use of district camera)**

**Completion of both Video Production 1A & 1B are required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Video Production 1B* builds on skills mastered in *Video Production 1A*. Students will work independently and in small groups to produce, direct, shoot, and edit a variety of broadcast-quality video productions. Potential examples include instructional/how-to videos, music videos, dramas, documentaries and sport highlight videos. Productions should be produced for viewing with use of digital effect, character generators,

scale and motion techniques and video and audio layering. Students will have contact with video professionals through guest speakers, field trips and/or job shadows. Out of class work is required on many projects. The course will culminate in a student's development of a digital portfolio featuring their best work from the semester.

**YEARBOOK PUBLICATIONS A/B**

**(10-12 or Teacher Recommendation)**

**CTEJX07/08 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Photography, Graphic Design, Computer Applications, Journalism and/or Technical Writing are strongly suggested, but not required.**

**Fee: None**

**Course Description:** *Yearbook Publications A/B* will provide students experience in the methods of journalism including experience in design, preparation, production and finances of the school yearbook. Emphasis will be on scheduling and meeting deadlines, designing layouts, photography, copywriting. This course demands that students demonstrate initiative, accept responsibility, and work independently or as a team. As a participant in this course, students should expect to spend time outside of the normal day gathering material for the final product. This is a progressive skills course that can be repeated for credit with teacher recommendation. **(R)**



# **HEALTH SCIENCE CLUSTER**

# HEALTH SCIENCE CLUSTER

## Year 1

- S1 - Introduction to Healthcare Occupations A  
(Completion is required to be eligible for concurrent Tech Prep Credits)
- S2 - Introduction to Healthcare Occupations B  
(Completion is required to be eligible for concurrent Tech Prep Credits)
- and/or
- S1 or S2 – Emergency Trauma Technician (ETT)  
(Completion is required to be eligible for concurrent Tech Prep Credits)

## Year 2

- S1 - Medical Law & Ethics
- S2 - Professionalism in Healthcare  
(Completion is required to be eligible for concurrent Tech Prep Credits)
- and/or
- S1 or S2 - Emergency Trauma Technician (ETT)  
(Completion is required to be eligible for concurrent Tech Prep Credits)
- and/or
- S1 - Introduction to Exercise Science & Sports Medicine 1A
- S2 - Introduction to Exercise Science & Sports Medicine 1B

## Year 3

- S1 - Introduction to Fire Services 1A (Completion is required to be eligible for concurrent Tech Prep Credits)
- S2 - Introduction to Fire Services 1B
- or
- S1 - Medical Terminology 1A
- S2 - Medical Terminology 1B (Completion of both 1A & 1B are required to be eligible for concurrent Tech Prep Credits)
- or
- S1 or S2 - Personal Relationships (Completion is required to be eligible for concurrent Tech Prep Credits)
- S1 or S2 - Emergency Trauma Technician (ETT)  
(Completion is required to be eligible for concurrent Tech Prep Credits)
- or
- S2 - Math in Healthcare (Completion is required to be eligible for concurrent Tech Prep Credits)
- and/or
- S1 or S2 - Emergency Trauma Technician (ETT)  
(Completion is required to be eligible for concurrent Tech Prep Credits)

## Year 4

- S1 - Introduction to Fire Services 1A (Completion is required to be eligible for concurrent Tech Prep Credits)
- S2 - Introduction to Fire Services 1B
- or
- S1 - Emergency Medical Technician 1A (EMT)
- S2 - Emergency Medical Technician 1B (EMT)
- or
- S1 or S2 - Personal Relationships (Completion is required to be eligible for concurrent Tech Prep Credits)
- and/or
- S1 or S2 - Emergency Trauma Technician (ETT)  
(Completion is required to be eligible for concurrent Tech Prep Credits)
- or
- S2 - Pharmacy Technician

# HEALTH SCIENCE

## EMERGENCY MEDICAL TECHNICIAN (EMT) 1A

(12) CTEK120 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Introduction to Healthcare Occupations A and Human Anatomy & Physiology

Fee: Required (\$25 maximum)

**Course Description:** *Emergency Medical Technician 1A* offers skills and knowledge of the EMT 1, covering emergency care in the following areas: patient assessment, CPR, shock management, oxygen therapy, soft tissue injury, splinting fractures, trauma assessment and extrication, burn management, environmental emergencies, childbirth, and common medical emergencies.

## EMERGENCY MEDICAL TECHNICIAN (EMT) 1B

(12) CTEK121 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Emergency Medical Technician 1A or Emergency Trauma Technician

Fee: Required (\$25 maximum)

**Course Description:** *Emergency Medical Technician 1B* offers skills and knowledge of the EMT 1, covering emergency care in the following areas: patient assessment, CPR, shock management, oxygen therapy, soft tissue injury, splinting fractures, trauma assessment and extrication, burn management, environmental emergencies, childbirth, and common medical emergencies.

## EMERGENCY TRAUMA TECHNICIAN (ETT)

(9-12) CTEK123 Elective

Length: 1 Semester = .5 Credit

Prerequisite: None

Fee: Required (\$25 maximum)

**Completion of Emergency Trauma Technician is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Emergency Trauma Technician* offers skills and knowledge of the first responder, covering emergency care in the following areas: patient assessment, CPR, shock management, oxygen therapy, soft tissue injury, splinting fractures, trauma assessment and extrication, burn management, environmental emergencies, childbirth, barrier crimes and common medical emergencies.

## INTRODUCTION TO FIRE SERVICES 1A

(11-12) CTEK126 Elective

Length: 1 Semester = .5 Credit

Prerequisite: One math credit and one science credit or Teacher Recommendation

Fee: Required (\$25 maximum)

**Completion of Introduction to Fire Services 1A is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Introduction to Fire Services 1A* provides an overview of career opportunities in fire protection, and related fields. Topic areas include an introduction to the philosophy and history of fire protection/services, fire departments as part of local government, laws and regulations affecting fire services, fire service terminology, specific fire protection functions, basic fire chemistry and physics, fire protection systems, National Incident Management System (NIMS), Incident Command System (ICS), rescue practices, and fire strategy and tactics.

## INTRODUCTION TO FIRE SERVICES 1B

(11-12) CTEK127 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Introduction to Fire Services 1A

Fee: Required (\$25 maximum)

**Course Description:** *Introduction to Fire Services 1B* covers rescue situations and techniques including vehicle extrication, rescue carries, ventilation principles, structural rescue, use of portable hand and power tools, wild land/canine search and rescue, ice and water rescue and emergency lifesaving principles.

### **INTRO TO HEALTHCARE OCCUPATIONS A**

(9-12) CTEK128 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$25 maximum)**

**Completion of Intro to Healthcare Occupations A is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Intro to Healthcare Occupations A* explores a variety of healthcare related careers and provides a basic overview of the following areas: roles and responsibilities of healthcare workers, job and educational opportunities, medical terminology, medical math, legal and ethical issues, confidentiality, personal safety and infection control, barrier crimes, problem solving and basic medical skills.

### **INTRO TO HEALTHCARE OCCUPATIONS B**

(9-12) CTEK129 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$25 maximum)**

**Completion of Intro to Healthcare Occupations B is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Intro to Healthcare Occupations B* provides an overview of a wide variety of health career related jobs that are essential to the healthcare field. The course emphasizes basic first aid, CPR and AED use. Students will explore various health careers such as sports medicine, firefighting, dispatch and police, veterinary medicine, dental, psychology, optometry, chiropractic, massage therapy, nursing, medicine and forensics. This course will stress personal and interdisciplinary cooperation required to meet patient needs throughout all levels of healthcare. Upon satisfactory completion of the course, the student will be issued first aid and CPR/AED cards.

### **INTRO TO EXERCISE SCIENCE & SPORTS MEDICINE 1A**

(10-12) CTEK110 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Intro Healthcare Occupations A, Human Anatomy & physiology or Teacher Recommendation**

**Fee: None**

**Course Description:** *Introduction to Exercise Science & Sports Medicine 1A* is designed to teach students components of exercise science/sports medicine; including exploration of therapeutic careers, medical terminology, anatomy and physiology, First aid, injury prevention principles, the healing process, rehabilitation techniques, therapeutic modalities, sport nutrition, sport psychology, and performance enhancement philosophies.

### **INTRO TO EXERCISE SCIENCE & SPORTS MEDICINE 1B**

(10-12) CTEK111 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Intro to Exercise Science & Sports Medicine 1A**

**Fee: None**

**Course Description:** *Introduction to Exercise Science & Sports Medicine 1B* is designed to review and reinforce the components of exercise science/sports medicine. Students will continue their exploration of therapeutic careers, use of medical terminology, application of knowledge of anatomy and physiology, First aid, injury prevention principles, the healing process, rehabilitation techniques, therapeutic modalities, sport nutrition, sport psychology, and performance enhancement philosophies. Students will develop their own personal interest projects to complement their participation in class.

### **MATH IN HEALTHCARE**

(9-12) CTEK112 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: *Algebra I***

**\*Cross-credited with Math**

**Fee: None**

**Completion of Math in Healthcare is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Math in Healthcare* provides practical application of mathematics in healthcare, including arithmetic review, decimals, fractions, percent, interest, ratio proportion, metric measurement, mathematical applications in medical measurement instruments, graphs, charts, medications, accounting, and office management. (A)

### **MEDICAL LAW & ETHICS**

**(10-12) CTEK119 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Intro to Healthcare Occupations A or Teacher Recommendation**

**Fee: None**

**Course Description:** *Medical Law & Ethics* provides an introduction and basics of medical law, ethics, and bioethics for the healthcare professions.

### **MEDICAL TERMINOLOGY 1A**

**(10-12) CTEK102 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Intro to Healthcare Occupations A**

**Fee: None**

**Course Description:** *Medical Terminology 1A* begins the study of medical terminology including analysis and origin of word roots, prefixes, and suffixes. Understanding the word components, students will be able to build, spell, and define medical words. Content will be presented by body systems focusing on terms for anatomy, diagnostic, laboratory and medical specialties; including use of medical dictionary, word pronunciation, and abbreviations. This course is designed for students in the Health Science Career Cluster.

### **MEDICAL TERMINOLOGY 1B**

**(10-12) CTEK103 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Medical Terminology 1A**

**Fee: None**

**Completion of Medical Terminology 1A & 1B are required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Medical Terminology 1B* reviews the first semester of Medical Terminology 1A content and continues to build on that foundation. Students will continue to study medical terminology including the analysis and origin of word roots, prefixes, and suffixes. By understanding the word components, students will be able to build, spell, and define medical words. *Medical Terminology 1B* will continue to be presented by body systems focusing on terms of anatomy, diagnostic, laboratory, and medical specialties. This course includes the use of a medical dictionary, word pronunciation, and abbreviations. This course is designed for students in the Health Science Career Cluster.

### **PHARMACY TECHNICIAN**

**(10-12) CTEK130 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Intro to Healthcare Occupations A or Teacher Recommendation**

**Fee: Required (\$25 maximum)**

**Course Description:** *Pharmacy Technician* introduces pharmacy practice and the technician's role in various pharmacy settings. The course emphasizes the history of pharmacy, pharmacy law and ethics, pharmacy terminology, symbols, dosage forms, and the hundred most frequently prescribed drugs. This course teaches basic pharmacology, the science of medication actions, sources, chemical properties, classification, uses, therapeutic

effect, side effects, adverse effects, and routes of administration. Students with an interest in becoming a certified nursing assistant, medical assistant, psychologist, dental technician, nurse, dentist, physician, emergency medical technician or pharmacist will find this course beneficial.

### **PROFESSIONALISM IN HEALTHCARE**

**(10-12) CTEK116 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Intro to Healthcare Occupations A**

**Fee: None**

**Completion of Professionalism in Healthcare is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Professionalism in Healthcare* teaches critical employability skills to ensure success for the professional health care worker who interfaces with patients and other medical professionals. This course stresses the importance of good character, a strong work ethic, including business manners, customer service, and dressing for success. Students aspiring to a career in the field of health care must understand the need for professionalism and performing in a competent manner.

### **PERSONAL RELATIONSHIPS**

**(11-12) CTEL104 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Health**

**Fee: None**

**Completion of Personal Relationships is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** The focus of this course will be on developing skills for establishing and sustaining positive relationships. This will be accomplished by learning skills for developing one's own well-being and learning how one's attitude affects relationships with friends, acquaintances, family, and communities (local, national, and global). Students will also study the similarities and differences of people; learn positive, productive communication techniques; and learn how to apply helpful problem-solving skills to their daily activities.





# **INFORMATION TECHNOLOGY (IT) CLUSTER**

# **INFORMATION TECHNOLOGY CLUSTER**

## **Year 1**

**S1 - Introduction to Information Technology 1A**

**S2 - Introduction to Information Technology 1B**

## **Year 2**

**S1 - IT Essentials 1A – Prepare for A+ Certification exam**

**S2 - IT Essentials 1B – Prepare for A+ Certification exam**

**(Completion of both IT Essentials 1A & 1B are required to be eligible for concurrent Tech Prep Credits)**

## **Year 3**

**S1 - Mobile Apps 1A**

**S2 - Mobile Apps 1B**

**or**

**S1 - Networking 1A (Completion is required to be eligible for concurrent Tech Prep Credits)**

**S2 - Networking 1B (Completion is required to be eligible for concurrent Tech Prep Credits)**

## **Year 4**

**S1 - Mobile Apps 1A**

**S2 - Mobile Apps 1B**

**or**

**S1 - Networking 2A (Completion is required to be eligible for concurrent Tech Prep Credits)**

**S2 - Networking 2B (Completion is required to be eligible for concurrent Tech Prep Credits)**

**CISCO Certified Entry-Level Network Technician (CCENT) Exam**

**or**

**S1- Modern Electronics S1**

**S2- Modern Electronics S2**

# INFORMATION TECHNOLOGY

## NETWORKING 1A

(10-12) CTEF305 Elective

Length: 1 Semester = .5 Credit

Prerequisite: IT Essentials 1A/1B or Teacher Recommendation

Fee: None

**Completion of Networking 1A is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Networking 1A* is the first semester of the Cisco Introduction to Networks, which introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs and perform basic configurations for routers and switches.

## NETWORKING 1B

(10-12) CTEF306 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Networking 1A

Fee: None

**Completion of Networking 1B is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Networking 1B* is the second semester of the Cisco Introduction to Networks course, which introduces the architecture, structure, functions, components and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet operations are the focus of this curriculum. By the end of the course, students will be able to design and implement an IP addressing scheme for a network and configure the routers and switches in order to make the network operational.

## NETWORKING 2A

(10-12) CTEF307 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Networking 1A/1B

Fee: None

**Completion of Networking 2A is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Networking 2A* is the first semester of Cisco's Routing & Switching Essentials course, which introduces the architecture, components and operations of routers and switches in a small to medium business network. Students will learn about basic sketching concepts and how to configure Cisco switches with VLANs. Students will also learn the operations of a router, routing tables and how to configure inter-VLAN routing.

## NETWORKING 2B

(10-12) CTEF308 Elective

Length: 1 Semester = .5 Credit

Prerequisite: Networking 2A

Fee: None

**Completion of Networking 2B is required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *Networking 2B* is the second semester of Cisco's Routing & Switching Essentials course, which introduces the architecture, components, and operations of routers and switches in a small to medium size business network. Students will learn how to configure routers with common routing protocols. They will also configure and troubleshoot access control lists, and network address translation. After completing this class, students will be prepared to take the Cisco CCENT<sup>®</sup> certification exam.

## **INTRODUCTION TO INFORMATION TECHNOLOGY 1A**

**(9-12) CTEF201 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fees: Required (\$10 maximum)**

**Course Description:** *Introduction to Information Technology 1A* is the first semester of a two-semester course that explores the four main areas of information technology: Information Support and Services, Interactive Media, Networking Systems, and Programming and Software Development. The first semester, *Introduction to Information Technology 1A*, covers the knowledge and skills associated with Information Support and Services careers. The goal of this course is to help students who are interested in an information technology career explore the Information Technology field and to prepare them for the core IT classes.

## **INTRODUCTION TO INFORMATION TECHNOLOGY 1B**

**(9-12) CTEF202 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Information Technology 1A**

**Fee: Required (\$10 maximum)**

**Course Description:** *Introduction to Information Technology 1B* is the second semester of a two-semester course that explores the four main areas of information technology: Information Support and Services, Interactive Media, Networking Systems, and Programming and Software Development. *Introduction to Information Technology 1B* covers the knowledge and skills associated with Interactive Media, Networking Systems, and Programming and Software Development. The goal of this course is to help students who are interested in an information technology career explore this field and to prepare them for the core IT classes.

## **IT ESSENTIALS 1A: PC HARDWARE AND SOFTWARE**

**(10-12) CTEF203 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Information Technology 1A/1B**

**Fee: Required (\$10 maximum)**

**Course Description:** *IT Essentials 1A: PC Hardware and Software* presents an in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course helps students prepare for the next course offering, *IT Essentials 1B: PC Operating Systems and Comp TIA's A+ certification*. Hands-on lab activities are an essential element of the course. The Virtual Laptop and Virtual Desktop are stand-alone tools designed to supplement classroom learning and provide an interactive “hands-on” experience in learning environments with limited physical equipment.

## **IT ESSENTIALS 1B: PC OPERATING SYSTEMS**

**(10-12) CTEF204 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: IT Essentials 1A: PC Hardware & Software**

**Fee: Required (\$10 maximum)**

**Completion of both IT Essentials 1A & 1B are required to be eligible for concurrent Tech Prep Credits**

**Course Description:** *IT Essentials 1B: PC Operating Systems* covers the fundamentals of computer hardware, software and advanced concepts such as security, networking and the responsibilities of an IT professional. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the Internet and share resources in a networked environment. Topics will include mobile devices such as tablets, smartphones and client side virtualization. Hands-on lab activities are an essential element of the course. The Virtual Laptop and Virtual Desktop are standalone tools designed to

supplement classroom learning and provide an interactive “hands-on” experience in learning environments with limited physical equipment.

### **MOBILE APPS 1A**

**(10-12) CTEF205 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Information Technology 1A/1B**

**Fee: None**

**Course Description:** *Mobile Apps 1A* is an introductory software design and programming course for mobile devices. The course starts with an introduction to Java programming and how to create basic Java applications. Once students have demonstrated a good understanding of Java, they will begin making applications for mobile devices. Smartphones and tablets will be used to test the apps for proper function during their development. No programming experience is necessary.

### **MOBILE APPS 1B**

**(10-12) CTEF206 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Mobile Apps 1A**

**Fee: None**

**Course Description:** *Mobile Apps 1B* will build on the foundation from *Mobile Apps 1A* and will focus on developing full featured apps from design to deployment.

### **MODERN ELECTRONICS 1A**

**(10-12) CTEF309 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Information Technology 1A/1B**

**Fee: None**

**Course Description:** *Modern Electronics 1A* is an introduction to DC electrical circuits and solid state electronics. Students will gain an understanding of how modern electronic devices work so they will be prepared to troubleshoot and repair them. Although students will be introduced to electrical laws and theory, the majority of the learning will come from hands-on activities, so this class relies heavily on the use of electronic kits and will gain knowledge and skills that will help them be successful in jobs such as computer support technicians, electronics technicians or computer/electrical engineers.

### **MODERN ELECTRONICS 1B**

**(10-12) CTEF310 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Modern Electronics 1B**

**Fee: None**

**Course Description:** *Modern Electronics 1B* introduces students to the world of microcontrollers and microprocessors. Students will learn how to program these devices in order to interact with and control various sensors and motors. This class uses a hands-on approach so students will be working extensively with an Arduino microcontroller and a Raspberry Pi computer to build prototypes of modern electronic devices. Students will develop skills that will help prepare them for a job as a computer support technician, electronics technician or computer/electrical engineer.



# **TRANSPORTATION, DISTRIBUTION & LOGISTICS (TDL) CLUSTER**

# **TRANSPORTATION, DISTRIBUTION & LOGISTICS CLUSTER**

## **Year 1**

**S1 - Small Engines 1A (Introduction to Small Engines) (Completion is required to be eligible for concurrent Tech Prep Credit)**

**S2 - Small Engines 1B (Snow Machine and Outboard) (Completion is required to be eligible for concurrent Tech Prep Credit)**

**or**

**S1 - Introduction to Collision Repair**

**S2 - Structural Analysis and Damage Repair 1A**

## **Year 2**

**S1 - Small Engines 2A (Motorcycle/ATV)**

**S2 - Small Engines 2B (Advanced Small Engines)**

**(Successful completion of year 1 & 2 makes you eligible to take the EETC certification exam)**

**or**

**S1 - Structural Analysis and Damage Repair 1B**

**S2 - Non-Structural Analysis and Damage Repair 1A**

## **Year 3**

**S1 - Consumer Auto**

**S2 - Basic Automotive Technology**

**or**

**S1 - Non-Structural Analysis and Damage Repair 1B**

**S2 - Plastics & Adhesives 1A**

**or**

**S1 - Heavy Equipment Maint & Op 1A**

**S2 - Heavy Equipment Maint & Op 1B**

## **Year 4**

**S1 & S2 - (2 period block) Advanced Automotive Technology**

**or**

**S1 - Plastics & Adhesives 1B**

**S2 - Painting & Refinishing 1A & 1B**

**(Successful completion of year 1-4 makes you eligible to take the ICAR certification exam)**

**or**

**S1 - Heavy Equipment Maint & Op 1A**

**S2 - Heavy Equipment Maint & Op 1B**

# TRANSPORTATION, DISTRIBUTION & LOGISTICS

## **SMALL ENGINES PATHWAY:**

### **SMALL ENGINES 1A** (Introduction to Small Engines)

(9-12) CTEE305 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$25 maximum)**

**Completion of Small Engines 1A is required to be eligible for concurrent Tech Prep Credit**

**Course Description:** This course covers the principles of small gasoline and diesel engines, safe working habits, employability skills, and environmental concerns related to internal combustion.

### **SMALL ENGINES 1B** (Snow Machine/Outboard Repair)

(9-12) CTEE306 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Small Engines 1A**

**Fee: Required (\$25 maximum)**

**Completion of Small Engines 1B is required to be eligible for concurrent Tech Prep Credit**

**Course Description:** This course is an advanced lab setting emphasizing tools and equipment, fuel systems, and electrical systems.

### **SMALL ENGINES 2A** (Motorcycle and ATV)

(9-12) CTEE307 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Small Engines 1B**

**Fee: Required (\$25 maximum)**

**Course Description:** *Small Engines 2A* is designed to provide students with a working knowledge of motorcycle and ATV recreational vehicle operation and service. Instruction in major engine systems operation and common engine service techniques is included.

### **SMALL ENGINES 2B** (Advanced Small Engines)

(9-12) CTEE308 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Small Engines 2A**

**Fee: Required (\$25 maximum)**

**Course Description:** This course is the last in a series and places extra emphasis on preparing students for employment.

## **BASIC AUTOMOTIVE TECHNOLOGY**

(11-12) CTEE101 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Junior Standing, Small Engines 1A/B and 2A/B or Teacher Recommendation**

**Fee: Required (\$25 maximum)**

**Course Description:** *Basic Automotive Technology* is an introduction to light vehicle transportation. During the course, basic fundamentals about automotive systems and repair are covered for entry into the advanced automotive course. In addition, alternative fuels, labor rates, technical service bulletins, NHSTA recalls and career information are covered. This course concentrates on tasks covered in the ASE/NATEF Maintenance and Light Repair (MLR) program.



## **CONSUMER AUTOMOTIVE MAINTENANCE**

**(11-12) CTEE108 Elective**

**Length: One Semester = .5 Credit**

**Prerequisite: Junior Standing, Small Engines 1A/B and 2A/B or Teacher Recommendation**

**Fee: Required (\$25 maximum)**

**Course Description:** *Consumer Automotive Maintenance* provides the novice an introduction into light vehicle maintenance. This course covers the basic maintenance procedures, standard service and repairs and an overview of most automotive systems. This course concentrates on tasks covered in the ASE/NATEF Maintenance and Light Repair.

## **ADVANCED AUTOMOTIVE TECHNOLOGY**

**(11-12) CTEE100 Elective**

**Length: Two Semesters x Two-period block = 1 Credit**

**Prerequisite: Basic Automotive Technology or Teacher Recommendation**

**Fee: Required (\$25 maximum)**

**Course Description:** *Advanced Automotive Technology* is an advanced course designed for the student that is serious about pursuing a career in the automotive field. The content is rigorous and covers the higher-level task allocations set forth by NATEF and adheres to the Maintenance and Light Repair (MLR) program standards. Upon successful completion of this course, the student will have entry-level technician skills that will allow them to find employment in the automotive trade or continue their education at the post-secondary level.

## **HEAVY EQUIPMENT MAINTENANCE & OPERATIONS 1A (Pilot)**

**(11-12) CTEE105P Elective**

**Length: One Semester = .5 Credit**

**Prerequisite: Basic Automotive Technology**

**Fee: None**

**Course Description:** *Heavy Equipment Maintenance & Operations (HEMO) 1A* presents students with career, industries and safety information. Students will explore their interest in operating and repairing heavy equipment in Alaska's Construction, Mining and Transportation industries. Students will have time to explore careers, identify heavy equipment and uses while understanding requirement for safety in industry. Students will have the opportunity to develop their skills on simulator-based heavy equipment. Students will develop a resume and create a personal learning career plan to prepare themselves for work in industry, application to registered apprenticeship or a university Diesel/Heavy Equipment or Construction Management program.

## **HEAVY EQUIPMENT MAINTENANCE & OPERATIONS 1B (Pilot)**

**(11-12) CTEE106P Elective**

**Length: One Semester = .5 Credit**

**Prerequisite: Heavy Equipment Maintenance & Operations 1A**

**Fee: None**

**Course Description:** In *Heavy Equipment Maintenance & Operations (HEMO) 1B*, students will continue to develop their interest knowledge and skills in heavy equipment operations, maintenance and safety, while building on their experiences gained in *HEMO 1A*. Students will learn how to use operators' manuals to safely start and shut down typical heavy equipment. Students may also have the opportunity to gain a Forklift Safety Card and become aware of the requirements to obtain a Commercial Driver's License (CDL). Classes will incorporate manufacturer information and OSHA/MSHA safety standards in the classroom and lab. Students will develop operational skills through machine simulation. Students are introduced to heavy equipment mechanical systems to include: engines, powertrains, hydraulic, electric, and pneumatic systems in the classroom and on equipment. Students will also learn how to develop a preventative maintenance plan and safely perform preventative maintenance on construction equipment. They will also see cold weather operations, precautions and preventative procedures. Here students will apply their knowledge of personal and industrial safety skills. Students will be introduced to national certifications and performance tests. They will continue to develop their personal learning career plan and prepare for work in

industry, application to registered apprenticeship or a university Diesel/Heavy Equipment or construction management program.

## **COLLISION REPAIR PATHWAY:**

### **INTRODUCTION TO COLLISION REPAIR**

**(9-12) CTEE401 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: Required (\$25 maximum)**

**Course Description:** *Introduction to Collision Repair* is an introduction to the knowledge, attitudes, and practical skills needed to work successfully as a Collision Repair Technician. The importance of basic vehicle and industry knowledge, understanding, entrepreneurship, and business management including reading damage reports, the estimating process, and developing a repair plan will be addressed. Shop and occupational safety skills, tool-care and use, comprehending and complying with requirements concerning ethics, employability skills, legal liability consequences, and insurance implications will be emphasized.

### **STRUCTURAL ANALYSIS & DAMAGE REPAIR 1A**

**(10-12) CTEE404 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Collision Repair and Welding**

**Fee: Required (\$25 maximum)**

**Course Description:** *Structural Analysis and Damage Repair 1A* is designed to provide instruction in the different procedures for structural damage analysis and repair of vehicle structure. Students will be trained to determine the extent of damage, the methods, and order of repair. They will be introduced to the measuring and pulling of unibody and frame type vehicles and making the repairs in accordance with vehicle manufacturers' recommendations.

### **STRUCTURAL ANALYSIS & DAMAGE REPAIR 1B**

**(10-12) CTEE405 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Structural Analysis & Damage Repair 1A**

**Fee: Required (\$25 maximum)**

**Course Description:** *Structural Analysis and Damage Repair 1B* builds on the skills developed in *Structural Analysis and Damage Repair 1A* with emphasis on following a repair plan. In addition, this course will focus on body filling, metal finishing, welding and cutting procedures performed according to manufacturer's/industry specifications.

### **NON-STRUCTURAL ANALYSIS & DAMAGE REPAIR 1A**

**(10-12) CTEE402 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Collision Repair and Welding**

**Fee: Required (\$25 maximum)**

**Course Description:** *Non-Structural Analysis and Damage Repair 1A* emphasizes reading damage reports and developing a repair plan; choosing from a variety of repair methods, tools, and materials to correctly repair metal and/or plastic materials; and panels in modern automobiles. It is designed to cover non-structural straightening techniques and proper tool selection and use in accordance with vehicle manufacturers' recommendations.

### **NON-STRUCTURAL ANALYSIS & DAMAGE REPAIR 1B**

**(10-12) CTEE403 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Non-Structural Analysis & Damage Repair 1A**

**Fee: Required (\$25 maximum)**

**Course Description:** *Non-Structural Analysis and Damage Repair 1B* builds on the skills developed in 1A with emphasis on following a repair plan. In addition, this course will focus on body filling, metal finishing, welding, and cutting procedures performed according to manufacturer/industry specifications.

**PLASTICS & ADHESIVES 1A**

(10-12) CTEE406 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Collision Repair**

**Fee: Required (\$25 maximum)**

**Course Description:** *Plastics and Adhesives 1A* introduces the students to the identification of automotive plastic parts, reinforced fiberglass parts, and sheet molded compounds (SMC). They will study the selection of adhesives and develop an understanding of adhesive repair methods, tools, and materials.

**PLASTICS & ADHESIVES 1B**

(10-12) CTEE407 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Plastics & Adhesives 1A**

**Fee: Required (\$25 maximum)**

**Course Description:** *Plastics and Adhesives 1B* continues the study of automotive plastic parts identification, reinforced fiberglass parts, and sheet molded compounds (SMC). Students will study the selection of adhesives and develop an understanding of adhesive repair methods, tools, and materials.

**PAINTING & REFINISHING 1A**

(10-12) CTEE408 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Introduction to Collision Repair**

**Fee: Required (\$25 maximum)**

**Course Description:** *Painting and Refinishing 1A* explores different procedures for surface preparation. They will design a plan that includes the selection and application of appropriate paints and finishes while demonstrating an understanding of shop and occupational safety skills.

**PAINTING & REFINISHING 1B**

(10-12) CTEE409 Elective

**Length: 1 Semester = .5 Credit**

**Prerequisite: Painting & Refinishing 1A**

**Fee: Required (\$25 maximum)**

**Course Description:** *Painting and Refinishing 1B* is designed to provide instruction in the different procedures for applying appropriate paints and finishes. Students will inspect and identify types of finishes and surface conditions and develop a plan for refinishing using one paint system from start to finish in conformance with paint system manufacturers specifications and complying with established safety rules established by OSHA, NIOSH, and EPA.

# MISCELLANEOUS

## STUDENT OFFICE ASSISTANTS

(11-12) CTEJX00 Elective

Length: 1 Semester = .5 Credit

Prerequisite: 2.0 GPA or above, excellent conduct, good attendance and Admin Recommendation.

This is a pass/fail course.

Fee: None

**Course Description:** This is a “hands-on” training course that will allow students to develop professional office skills. Students may be assigned to the administrative office, nurses’ office or the counseling office. The students will be instructed on mastery of the technical and human-service skills that all office workers need in order to excel in the highly competitive work environment.

(R – one time only)

## STUDENT CLASSROOM ASSISTANTS

(11-12) CTEJX02 Elective

Length: 1 Semester = .5 Credit

Prerequisite: 2.0 GPA or above, excellent conduct, good attendance, and Teacher Recommendation.

This is a pass/fail course.

Fee: None

**Course Description:** This is a “hands-on” training course that will allow students to develop basic skills necessary in a particular instructional area. This course promotes student responsibility in job performance and student understanding of the diverse responsibilities, activities and skills of the teaching profession. (R – one time only)

## STUDENT LAB ASSISTANTS

(11-12) CTEJX03 Elective

Length: 1 Semester = .5 Credit

Prerequisite: 3.0 GPA, excellent conduct and attendance, successful completion of related content and curriculum and Teacher Recommendation. This is a graded position.

Fee: None

**Course Description:** This is a “hands-on” training course that will allow students to develop instructional skills and gain insights about all aspects of science as a career. Students will assist teachers in working with students who are experiencing academic difficulties in the class. The students will be instructed on the techniques of explaining assignments, tutoring one-on-one, or assisting small groups during labs. Instructional techniques, lab protocols, verbal and non-verbal communication skills will be emphasized. (R – one time only)

## STUDENT TUTORING ASSISTANTS

(11-12) CTEJX04 Elective

Length: 1 Semester = .5 Credit

Prerequisite: 3.0 GPA, excellent conduct and attendance, successful completion of related content and curriculum and Teacher Recommendation. Pass/Fail or letter grade may be given at the discretion of the teacher.

Fee: None

**Course Description:** This is a “hands-on” training course that will allow students to develop instructional skills and gain insights about teaching as a career. Students will assist teachers in working with students who are experiencing academic difficulties in the class. The students will be instructed on the techniques of explaining assignments, tutoring one-on-one, or assisting small groups. Instructional techniques, verbal and non-verbal communication skills will be emphasized. A letter grade may be given at the discretion of the teacher. (R – one time only)

**STUDENT LIBRARY ASSISTANTS**

**(11-12) CTEJX05 Elective**

**Length: 1 Semester = .5 Credit**

**Prerequisite: 2.0 GPA or above, excellent conduct, good attendance and Librarian Recommendation. This is a graded position.**

**Fee: None**

**Course Description:** This is a “hands-on” training course that will allow students to develop technical library skills. The students will be instructed and graded on their mastery of the technical and human-service skills that all library workers need in order to excel in the highly structured and professional work environment. **(R – one time only)**



# **James T. Hutchison High School**

## **Core Academic Courses**

**School Year  
2018 – 2019**

# ENGLISH

## GRADUATION REQUIREMENTS: 4 Credits = Eight (8) Semesters

### ENGLISH 9

(9) EN212/213

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: None

**Course Description:** *English 9* introduces the genres of literature and the writing process through a combination of composition, literature, and speech experiences. The course provides a variety of writing experiences including on-demand and process writing, and essays in response to literature studied. Introduction to literary analysis, library and research skills, grammar, mechanics and usage, and vocabulary are also included. Students complete a short research paper or project second semester. (A/N)

### ENGLISH 9 HONORS

(9) EN214/215

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: Teacher Recommendation

**Course Description:** *English 9 Honors* is designed for advanced readers and writers capable of in-depth analysis and who are motivated to take this challenge. Through a combination of composition, literature and speaking experiences, the course provides an in-depth study of the genres of literature, and a variety of writing experiences, including on-demand and process writing, and essays in response to literature studied. Introduction to literary analysis, library research skills, grammar, mechanics and usage, and vocabulary development are also included. Students complete a short research paper or project in the second semester. (A/N)

### ENGLISH 10

(10) EN222/223

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: English 9

**Course Description:** This course is a continuation of *English 9* and uses literature to further develop reading, writing, speaking, and listening skills. Students will use reading strategies to expand their personal vocabulary, summarize, infer, compare/contrast main ideas, and use textual facts to support text analysis. Using the writing process and the 6+1 Traits® rubric, students will write for a variety of audiences, practice the steps in writing a research paper, and utilize a standard writing handbook. Students will also participate in class discussions, oral presentations, and group projects. This year-long course fulfills two semesters of the *English 10* requirement. (A/N)

### ENGLISH 10 HONORS

(10) EN224/225

Length: 2 Semesters = 1 Credit

Prerequisite: English 9 or Teacher Recommendation

**Course Description:** *English 10 Honors* is a continuation of English 9 Honors and is designed for recommended sophomores who are reading and writing above grade-level, capable of in-depth analysis, and motivated to take this challenging course. Students will use literature and reading strategies to expand vocabulary, summarize, infer, compare/contrast main ideas, and use textual facts to support text analysis. Using the writing process and the 6+1 Traits£ rubric, students will write for a variety of audiences, produce a research paper, and utilize standard writing resources. Students will also participate in class discussions, oral presentations, and group projects. This year-long course fulfills two semesters of the English 10 requirement. (A/N)

**ENGLISH 11: EARLY AMERICAN LITERATURE**

(11) EN232

**Length: 1 Semester = .5 Credit**

**Prerequisite: Junior Standing and English 10**

**Course Description:** This integrated course combines a survey of early American and other related authors with composition. American prose, poetry, and drama are used as vehicles for examining American culture and improving writing skills. Formal literary analysis is required, as well as a variety of other writing experiences. (A/N)

**ENGLISH 11: MODERN AMERICAN LITERATURE**

(11) EN234

**Length: 1 Semester = .5 Credit**

**Prerequisite: Junior Standing and English 10**

**Course Description:** This integrated course combines a survey of modern American authors with composition. American prose, poetry, and drama are used as vehicles for examining American culture and improving writing skills. Formal literary analysis is required, as well as a variety of other writing experiences. (A/N)

**ENGLISH 11 HONORS:**

**EARLY AMERICAN LITERATURE HONORS**

(11) EN233

**ENGLISH 11: MODERN AMERICAN LITERATURE HONORS**

(11) EN235

**AMERICAN WRITERS HONORS**

(11) EN237

**Length: 1 Semester = .5 Credit**

**Prerequisite: Junior Standing, English 10, and Teacher Recommendation**

**Course Description:** *American Literature Honors, Modern American Literature Honors and American Writers Honors* are courses designed for accelerated students who have demonstrated advanced proficiency in reading and writing, in-depth analysis, and who are motivated to take this challenging course. Students cover the requirements for *Early American Literature, Modern American Literature, American Writers*, and at least one more additional text. (A/N)

**ADVANCED PLACEMENT (AP) LITERATURE & COMPOSITION**

(12) EN252/253

**Length: 2 Semesters/1 Year = 1 Credit**

**Prerequisite: English 10 Honors (or equivalent)**

**Fee: AP exam approx. \$90**

**(AP exam is strongly encouraged)**

**Course Description:** *AP Literature & Composition* is a year-long college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. Students will consider a world's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. The first semester of this course fulfills the English 12 requirement. The second semester fulfills the English 12 elective. (A/N)

**ENGLISH 12: EARLY BRITISH LITERATURE**

(12) EN243

**Length: 1 Semester = .5 Credit**



**Prerequisite: Senior Standing and English 11**

**Course Description** This integrated course combines a survey of early British and other related authors with composition. British prose, poetry, and drama are used as vehicles for examining culture and improving writing skills. Formal literary analysis is required, as well as a variety of other writing experiences. (A/N)

**ENGLISH 12: MODERN BRITISH LITERATURE**

(12) EN245

**Length: 1 Semester = .5 Credit**

**Prerequisite: Senior Standing and English 11**

**Course Description:** This integrated course combines a survey of modern British and world authors with composition. Prose, poetry, and drama are used as vehicles for examining culture and improving writing skills. Formal literary analysis is required, as well as a variety of other writing experiences. (A/N)

**SURVEY OF BRITISH LITERATURE**

(12) EN247

**Length: 1 Semester = .5 Credit**

**Prerequisite: Senior Standing and English 11**

**Course Description:** *Survey of British Literature* is an integrated course that combines a survey of British authors with composition. British prose, poetry, and drama are used as vehicles for examining culture and improving writing skills. Formal literary analysis is required, as well as a variety of other writing experiences. (May not be taken if the student is taking or will be taking Early British Literature or Modern British Literature). (A/N)

**Electives:**

**CREATIVE WRITING**

(11-12) EN268

**Length: 1 Semester = .5 Credit**

**Prerequisite: Junior Standing or Teacher Recommendation**

**~WRITING INTENSIVE~**

**Course Description:** This course emphasizes the development of a creative writer's "toolbox" of techniques based on evaluating published models of creative nonfiction, poetry, fiction, and drama. Students will practice strategies for finding inspiration, drafting in various genres, accepting and offering meaningful critical feedback, and revising toward a publishable product. (A/N)

**NON-FICTION WRITING**

(11-12) EN295

**Length: 1 Semester = .5 Credit**

**Prerequisite: Junior Standing or Teacher Recommendation**

**Course Description:** *Non-Fiction Writing* is a challenging course that focuses on written communication skills as they relate to the world of business and technology. Communication and teamwork are emphasized. Technical writing skills include business correspondence, gathering and presenting data, technical documents, and reports. (A/N)

**SPEECH & DEBATE**

(11-12) EN293

**Length: 1 Semester = .5 Credit**

**Prerequisite: Junior Standing or Teacher Recommendation**

**Course Description:** In this course students will learn to prepare debate cases in addition to learning the speech skills taught in the required English courses. Emphasis will be on argumentation skills and logical organization. (A/N)

## HEALTH

**GRADUATION REQUIREMENT: .5 Health Credit**

**HEALTH**

**(9-12) HL001**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fulfills graduation requirement**

**Course Description:** *Health* focuses on the acquisition of accurate health information and the development of healthy attitudes and behavior patterns. Decision-making and goal-setting skills are presented at developmentally appropriate levels. Students will learn content and practice skills through the study of the following nine strands: Overall Health/Wellness, Nutrition, Communication/Relationships, Mental Health, Substance Abuse, and Reproduction /Sex Education.

# MATHEMATICS

## GRADUATION REQUIREMENTS: 3 Credits

Students must successfully complete Algebra I.

### ALGEBRA I

(9) MA201/202

Length: 2 Semesters/1 Year = 1 Credit (fulfills Algebra requirement)

Prerequisite: Mathematics 8 or Teacher Recommendation

**Course Description:** *Algebra I* formalizes and extends the mathematics that students learned in the middle grades. Students will master linear equations and inequalities systems of equations, descriptive statistics, quadratic expressions and functions. Topics covered will include operations with polynomials and rational exponents. Students will be introduced to exponential functions and sequences. Success in this course requires regular practice, memorization of formulas, constant review of key topics and applications. **(Fulfills Algebra requirement.) (A/N)**

### ALGEBRA I (Four Semesters)

(9) MA264 - Sm 1 (Fndmtls)

MA265 - Sm 2 (1.1)

MA266 - Sm 3 (1.2)

MA267 - Sm 4 (1.3)

Length: 4 Semesters / 2 Years = 1 math credit AND 1 math elective credit; completion of course fulfills Algebra I requirement

Prerequisite: Placement based on test scores and/or Teacher Recommendation

**Course Description:** The first semester of *Algebra I (Four Semesters)*, titled "Fundamentals," provides a review of 8th grade math standards, with individualized attention to students' specific skill deficits. The second semester begins instruction in *Algebra I*. Over three semesters, students receive *Algebra I* curriculum with a focus on conceptual understanding and applications of concepts. Semester two contains Functions, Systems of Linear Equations and Statistics. Semester three contains Linear Equations, Systems and Quadratics. The final semester contains Polynomials and Exponential Equations. **Please see school counselor to identify school's options and pathways to fulfill the Algebra I requirement.**

### GEOMETRY

(9-12) MA221/222

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: Algebra I or Teacher Recommendation

**Course Description:** The fundamental purpose of the course in *Geometry* is to formalize and extend students' geometric experiences using more precise definitions and developing careful proofs. In *Geometry*, students will master the following topics: congruence and similarity through transformations, right triangle trigonometry, applications of probability, formal mathematical arguments, properties of circles, and the applications of geometric concepts to 3-dimensional situations. Additional topics covered will include constructions and trigonometry of general triangles. Success in this course requires regular practice, memorization of formulas, constant review of key topics and application of proofs and theorems. (A/N)

### STEM GEOMETRY (HONORS)

(9-11) MA268/269

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: Algebra I or Teacher Recommendation

**Course Description:** In *STEM Geometry (Honors)*, students will master all of the topics from *Geometry*, with a variety of additional topics to include an in depth study of vectors and their properties. STEM education is an approach to teaching and learning that integrates the content and skills of Science, Technology, Engineering, and Mathematics.

### **ALGEBRA II**

**(9-12) MA204/205**

**Length: 2 Semesters/1 Year = 1 Credit**

**Prerequisite: Completion of Algebra I AND Geometry (may be concurrently enrolled in Geometry)**

**Course Description:** *Algebra II* provides an enrichment of the concepts learned in *Algebra I*, develops advanced algebra skills, and introduces new topics, preparing students for success in Functions and Trigonometry. Students will master polynomial and radical relations, developing real world non-linear models, basic trigonometric applications and statistical inferences. Topics covered will include operations with functions (linear, quadratic, polynomial, and rational), analyzing graphs of those functions and conic sections. Students will be introduced to rational functions and matrix mathematics. Success in this course requires regular practice, memorization of formulas, constant review of key topics and applications. (A/N)

### **STEM ALGEBRA II (HONORS)**

**(9-12) MA278/279**

**Length: 2 Semesters/1 Year = 1 Credit**

**Prerequisite: Completion of Algebra I AND Geometry (may be concurrently enrolled in Geometry) AND Teacher Recommendation**

**Course Description:** In *STEM Algebra II (Honors)*, students will master all of the topics from *Algebra II*, with a variety of additional topics to include an in depth study of asymptotic behaviors associated with radical and rational functions. STEM education is an approach to teaching and learning that integrates the content and skills of Science, Technology, Engineering and Mathematics. (A/N)

### **Electives:**

#### **MATH IN HEALTHCARE**

**(9-12) CTEK112**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Algebra I**

**\*Cross-credited with Career & Technical Education–Health Science**

**Course Description:** *Math in Healthcare* provides practical application of mathematics in healthcare, including arithmetic review, decimals, fractions, percent, interest, ratio proportion, metric measurement, mathematical applications in medical measurement instruments, graphs, charts, medications, accounting, and office management. (A)

#### **MATH FOR TRADES & TECHNICAL CAREERS**

**(11-12) MA281/282**

**Length: 2 Semesters/1 Year = 1 Credit**

**Prerequisite: One semester of Algebra II OR recommendation from team meeting including math teacher, counselor and parent/student**

**Course Description:** *Math for Trades & Technical Careers* emphasizes the advanced and applied algebraic topics needed for success in industry based occupations. The course is designed to introduce the student to the mathematics used in various trades and apprenticeship programs through a focus on the practical application of mathematics. Students are expected to master skills without the use of a calculator in addition to working with applied problems using manipulatives, calculators, spreadsheets, application software, and specialized technologies. There will be a review of number system, fractions, measuring tools, unit conversions, ratios, proportions, percent, plane and solid geometry, systems or equations, quadratic formula, trigonometry, and vectors.

All concepts are applied to industry situations with the goal and focus of preparing for industry entrance exams.  
(A)

### **FUNCTIONS & ANALYSIS**

(11-12) MA284

**Length: 1 Semester= .5 Credit**

**Prerequisite: Algebra II (may be concurrently enrolled) AND Teacher Recommendation**

**Course Description:** *Functions & Analysis* is designed (in conjunction with *Trigonometry*) to prepare students for Calculus. Students will be provided with a rigorous algebraic study of rational, polynomial, exponential and logarithmic functions. Students will expand their study of sequences, series, probability and expected values. Success in this course requires regular practice, memorization of formulas, constant review of key topics and applications.

### **TRIGONOMETRY**

(11-12) MA283

**Length: 1 Semester= .5 Credit**

**Prerequisite: Algebra II (may be concurrently enrolled) AND Teacher Recommendation**

**Course Description:** *Trigonometry* is designed (in conjunction with *Functions & Analysis*) to prepare students for Calculus. Students will be provided with a rigorous study of radians, degrees, DMS, graphing trigonometric functions, trigonometric identities, and other coordinate systems. Students will be introduced to limits. Success in this course requires regular practice, memorization of formulas, and constant review of key topics and applications.

### **ADVANCED PLACEMENT (AP) CALCULUS A/B**

(9-12) MA248/249/250

**Length: 2 Semesters= 1 Credit**

**Prerequisite: Functions & Analysis AND Trigonometry OR Teacher Recommendation**

**Fee: AP exam approx. \$90**

**(AP exam is strongly encouraged)**

**Course Description:** *AP Calculus A/B* is roughly equivalent to a first semester college calculus devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. (A/N)

### **ADVANCED PLACEMENT (AP) CALCULUS B/C (Distance Delivery)**

(9-12) MA251/252/253

**Length: 2 Semesters = 1 Credit**

**Prerequisite: AP Calculus A/B**

**Fee: AP exam approx. \$90**

**(AP exam is strongly encouraged)**

**Course Description:** *AP Calculus B/C* is roughly equivalent to a first and second semester college calculus courses extends the content learned in *AP Calculus A/B* to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. (A/N)

# PHYSICAL EDUCATION

**GRADUATION REQUIREMENTS: 1.5 Physical Education credits from the following areas:**

One-quarter (.25) credit for the physical education requirement may be waived for each full season of participation in an approved interscholastic or intramural athletic competition. The total credit waived shall not exceed one (1) full credit. A waiver of credit does not affect the overall minimum graduation requirement of 22.5 credits (School Board Policy 984). **Elective credit must be earned to replace the physical education requirement that is waived.**

## **FUNDAMENTALS OF PHYSICAL EDUCATION**

**(9-12) PE050**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: None**

**Course Description:** This course is designed to be an introduction to high school physical education. It is strongly recommended that students take this course their 9th grade year because it provides a comprehensive overview of physical education and is a prerequisite for many other physical education courses. Competency is developed in a wide range of activities and students are prepared to make informed decisions about future recreation and fitness pursuits. **(R – availability may be limited)**

## **PE: FITNESS**

**(9-12) PE051**

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Fee: None**

**Course Description:** This course will emphasize physical fitness for a healthy lifestyle through a variety of activities involving cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, and body composition. Health and skill-related components of fitness, training principles, safety factors, target heart rate, effects of proper nutrition, benefits of regular exercise, basic muscular anatomy, and kinesiology will be covered. **(R – availability may be limited)**

## **PE: WEIGHT TRAINING**

**(9-12) PE064**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Fundamentals of Physical Education**

**Fee: None**

**Course Description:** *Weight Training* is designed to promote development of muscular strength and endurance with the knowledge and awareness of safe practices. Students will learn to identify the muscle groups, understand good nutrition, and practice positive social and personal skills, which lead to a wellness lifestyle. **(R –availability may be limited)**

# SCIENCE

## GRADUATION REQUIREMENTS: 3 Science Credits

- 1 Credit Biological Science (2 Semesters)
- 1 Credit Physical Science (2 Semesters)
- 1 Science Elective Credit (2 Semesters)

### EARTH & SPACE SCIENCE

(9-10) SC060/061

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: None

**Course Description:** *Earth & Space Science* builds on middle school ideas and skills which allows high school students to explain more in-depth phenomena central not only to the earth and space sciences, but to life and physical sciences as well. The performance expectations blend the core ideas with scientific and engineering practices to explain ideas across the science disciplines. This course fulfills the requirements of a physical science course. (A/N)

### BIOLOGY

(9-12) SC003/004

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: Earth and Space Science, or HS/MS Teacher Recommendation

**Course Description:** *Biology* is a one-year course designed to meet the Biological Science requirement for graduation. The academic focus is to develop student reading, writing, processing, and organizational skills. The scientific focus is to improve science vocabulary, scientific observation, inquiry, experimentation, and analysis skills. Safety skills will be stressed each semester. The first semester will begin with the study of cells, Cell structures and their functions, protein synthesis, genetics, and the study of heredity. Second semester will include evolution, characteristics of multi-cellular organisms with attention to organs and organ systems, and the diversity of organisms and ecology. (A/N)

### CHEMISTRY

(10-12) SC022/023

Length: 2 Semesters/1 Year = 1 Credit

Prerequisite: Algebra I and Biology or Chem Tech

**Course Description:** *Chemistry* is a one-year introductory general chemistry course which builds a foundation for college-level chemistry, physics, and biology courses. Students learn about chemical reactions and the structure of matter in order to explain how and why substances react the way they do. Laboratory work and laboratory reporting are an integral part of the course, helping students develop an understanding of the concepts as well as the process of science. *Chemistry* is to be distinguished from *Chem Tech* by the higher level of mathematical preparation a student needs to succeed. This is a lab-based course. (A/N)

### PHYSICS

(10-12) SC031/032

Length: 2 Semesters/1Year = 1 Credit

Prerequisite: Algebra II and Geometry or Teacher Recommendation

**Course Description:** *Physics* is an introductory general physics course with an emphasis on mathematics that will build a strong foundation for college-level courses in physics and other sciences. Students are expected to develop and understanding of forces and interactions, energy, and the applications of waves as they are used in information transfer. Students are expected to develop and understanding of forces and interactions, energy, and the

applications of waves as they are used in information transfer. The first semester is an in-depth exploration of mechanics (motion, forces, energy, and momentum). The second semester includes an in-depth exploration of thermal energy, electricity and magnetism, and wave applications in technology. (A/N)

#### **Electives:**

#### **HUMAN ANATOMY AND PHYSIOLOGY**

(11-12) SC005

**Length: 1 Semester = .5 Credit**

**Prerequisite: Biology, Biotechnology, or Life Science and Teacher Recommendation \*Cross-credited with Career & Technical Education-STEM**

**Course Description:** *Human Anatomy & Physiology* is a one-semester course that advanced students will learn about the major organ systems of the human body and how they work together to sustain life and maintain health. Academic skills will focus on independent reading and analysis. Content focus will be on the relationship between the structure (anatomy) of organs and organ systems and the functions (physiology) of those systems. Students will have the opportunity to study how healthy life choices can help to enhance the functioning of those systems. They will also be introduced to the many careers available in the modern health care system. (A/N)

#### **INTRODUCTION TO BASIC PATHOPHYSIOLOGY**

(10-12) SC043

**Length: 1 Semester = .5 Credit**

**Prerequisite: Human Anatomy and Physiology**

**\*Cross-credited with Career & Technical Education-STEM**

**Course Description:** *Intro to Basic Pathophysiology* is a one-semester course that will emphasize the study of viruses, bacteria, and other microorganisms and the diseases caused by them. The course will review basic cellular function, tissue types, and body systems to compare with the body's response to injury or illness. The lab portion of this course will focus on systematic identification of bacteria. This course is highly recommended for students interested in pursuing a career in health science. (A/N)

#### **MARINE BIOLOGY**

(10-12) SC042

**Length: 1 Semester = .5 Credit**

**Prerequisite: One (1) year of science**

**Course Description:** *Marine Biology* explores the adaptations of marine organisms, ecological concepts and physical processes that structure the marine environment. The course is a study of the environmental impacts of chemistry, geology and other abiotic conditions and the organisms that live in marine environments. The course also examines human interactions with marine ecosystems and the many careers associated with it. Special attention will be given to students' knowledge of Alaska's marine environment, its importance to indigenous peoples, local economies, food production and career possibilities. (A/N)

#### **MICROBIOLOGY & BOTANY**

(10-12) SC006

**Length: 1 Semester = .5 Credit**

**Prerequisite: Biology, Life Science, or Biotechnology**

**Course Description:** *Microbiology & Botany* is a one-semester course that will emphasize the study of viruses, bacteria, and other microorganisms, fungi, and plants, especially vascular plants. This course is a lab-oriented class. Local species and processes will be studied whenever possible. (A/N)

#### **ADVANCED PLACEMENT (AP) PHYSICS 1 A/B**

(11-12) SC048/049

**Length: 2 Semesters/1Year = 1 Credit**



**Prerequisite: Geometry, concurrently enrolled in Algebra II or Teacher Recommendation\***

**Course Description:** *AP Physics 1 A/B* is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

**ADVANCED PLACEMENT (AP) PHYSICS 2 A/B**

**(11-12) SC054/055**

**Length: 2 Semesters/1Year = 1 Credit**

**Prerequisite: AP Physics 1 A/B**

**Course Description:** *AP Physics 2 A/B* is an algebra-based, introductory college-level physics course. Students cultivating of physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum atomic, and nuclear physics.

**NATURAL RESOURCES BIOLOGY A/B**

**(9-12) SC085/86**

**Length: 2 Semesters/1Year = 1 Credit**

**Prerequisite: None**

**\*Cross-credited with Career & Technical Education-Agriculture, Food & Natural Resources**

**Course Description:** *Natural Resources Biology* is designed to explore multiple environmental natural resources career pathways including Alaska's fishing, forestry, mining, agriculture and aquaculture industries. Over the course, students will discuss careers, employability, current issues in resource management leadership development, business management, animal science, and plant science. The focus for first semester is on further understanding of cell structure and function, animal and plant science as they relate to agriculture and food science in Alaska. Second semester will focus on land management practices or forestry and wildlife as they relate to current ecological issues in Alaska. Throughout the course, stress will be placed on safety, scientific vocabulary, scientific inquiry, experimentation and investigation, and validation and supporting evidence. Technical writing skills will be introduced and practiced.

**FORENSIC SCIENCE**

**(11-12) SC011**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Biology and Chemistry**

**Course Description:** *Forensic Science* is a one-semester course that explores the principles and techniques of science to analyzing crime scene evidence. Emphasis will be placed on laboratory techniques, scientific inquiry, communications skills, as well as aspects of the criminal justice system and the admissibility of evidence. Prior knowledge of human genetics and chemistry is preferred. (A/N)

**ADVANCED FORENSIC SCIENCE**

**(11-12) SC013**

**Length: 1 Semester = .5 Credit**

**Prerequisite: Forensic Science**

**Course Description:** *Advanced Forensic Science* is intended for the more serious forensic science student. Students will build upon their forensic knowledge by investigation advanced forensic science techniques. Students will continue to apply the principles and techniques of science to analyzing crime scene evidence. Emphasis will be placed on both qualitative and quantitative engineering design, as well as aspects of the criminal justice system and the admissibility of evidence. Prior knowledge of human genetics and chemistry is preferred. (A/N)

# SOCIAL STUDIES

## GRADUATION REQUIREMENTS: 3.5 Credits

- 1 Credit American Studies (2 semesters)
- 1 Credit World Studies (2 semesters)
- .5 Credit Alaska Studies
- .5 Credit Contemporary Government Studies
- .5 Credit Contemporary Economic Studies

### World Studies Course Offerings:

#### WORLD HISTORY 1

(9-10) SS001

Length: 1 Semester = .5 Credit

Prerequisite: None

**Course Description:** The focus will be on global developments from the empires of the classical age to the emergence of the first global age to the rise of absolutism and the revolutionary response of the early 19th century. World History 1 will emphasize the use of primary sources critical thinking about cause and effect and analysis of historical interpretation. (A/N)

#### WORLD HISTORY 2

(9-10) SS002

Length: 1 Semester = .5 Credit

Prerequisite: None

**Course Description:** *World History 2* will emphasize the use of primary sources, critical thinking about cause and effect, and analysis of historical interpretation. The focus will be on the global impacts of imperialism and industrialization in the 19th century and the development of a true global society in the 21st century. (A/N)

### Electives:

#### PSYCHOLOGY

(10-12) SS041

Length: 1 Semester = .5 Credit

Prerequisite: None

**Course Description:** *Psychology* introduces students to the systematic and scientific study of the behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use to explore the processes involved in normal and abnormal perceptions, thoughts, feelings, and actions. (A/N)

### American Studies Course Offerings:

#### RECENT U.S. HISTORY 1

(11) SS004

Length: 1 Semester = .5 Credit

Prerequisite: None

**Course Description:** *Recent U.S. History 1* reviews the foundations of democracy before focusing on the people, cultures, issues and events that shaped the United States from Reconstruction to the 1930's. Students explore the

influences and challenges that have shaped our nation. This course emphasizes the role of democratic principles present and the civic responsibility and involvement that have guided the United States. (A/N)

### **RECENT U. S. HISTORY 2**

(11) SS005

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Course Description:** *Recent U.S. History 2* focuses on the people, cultures, issues and events that shaped the United States from the 1930s to the present. Students explore the influences and challenges that have shaped our nation. This course emphasizes the role of democratic principles and the civic responsibility and involvement that have guided the United States. (A/N)

### **Alaska Studies Course Offering:**

#### **ALASKA STUDIES**

(9-12) SS029

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Course Description:** In this one-semester survey course, students will become familiar with the historic, economic, political, geographic, and cultural influences on Alaska and the ways these forces have shaped modern day Alaskan society. (A/N)

### **Contemporary Government Studies Course Offering:**

#### **AMERICAN GOVERNMENT**

(12) SS023

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Course Description:** In *American Government*, students become knowledgeable about the political structure and function of the government, United States political process, issues confronting Americans, and the responsibilities of being active participants in a democratic republic. (A/N)

### **Contemporary Economic Studies Course Offering:**

#### **GENERAL ECONOMICS**

(12) SS026

**Length: 1 Semester = .5 Credit**

**Prerequisite: None**

**Course Description:** In *General Economics*, students learn to analyze how individuals, communities, and nations make rational choices in a world defined by scarcity. The primary goal of the course is to help students become effective citizens as they develop the skills needed to be productive workers, informed consumers, and prudent investors. The course incorporates current events and historical developments, many of which are included in other social studies courses, analyzing them with economic concepts, theories, and models in order to view them from a different perspective and investigate them in greater depth. (A/N)

# WORLD LANGUAGE

## SPANISH I

(9-12) FL055/056

**Length: 2 Semesters/1 Year = 1 Credit**

**Prerequisite: None**

**Fee: Required (\$20 maximum + dictionary)**

**Course Description:** *Spanish I* is an introductory course designed to lay the foundation for students to comprehend and communicate *Spanish* in everyday life. Students will acquire basic grammar, pronunciation, and comprehension skills while exploring a variety of *Spanish* cultural topics. (A/N)

## SPANISH II

(9-12) FL058/059

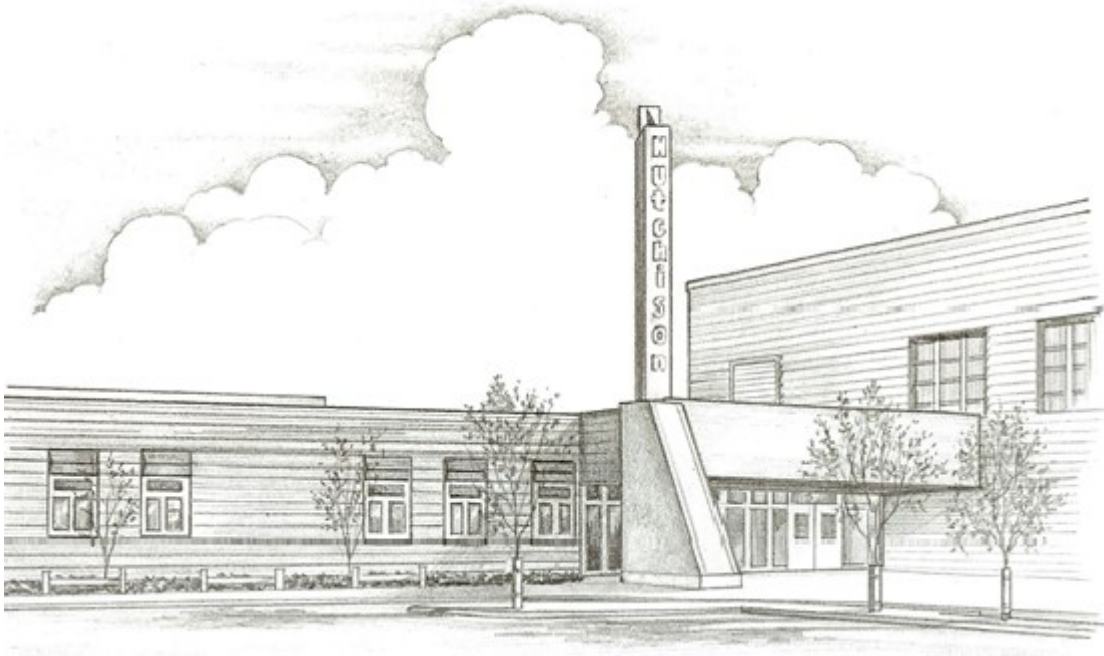
**Length: 2 Semesters/1 Year = 1 Credit**

**Prerequisite: Spanish I**

**Fee: Required (\$20 maximum + dictionary)**

**Course Description:** *Spanish II* will more fully develop students' knowledge of grammar rules and pronunciation skills while exploring *Spanish* culture and history. Students will communicate in the target language on a daily basis as they enhance their understanding of additional *Spanish* speaking countries.

(A/N)



# APPENDIX

# FNSBSD CLASS STANDINGS – HIGH SCHOOL

## 983.5 Class Standings – High School

### Purpose

To establish the policy of the School Board on classifying high school students' class standing for consistency across the district and compliance with state statute and regulations as this issue impacts the graduation rate and participation in standardized assessments.

### Policy

A high school student's class standing for freshman, sophomore, and junior classification shall be determined by the number of years in high school. The number of years in high school and the number of credits earned shall be used to classify students as seniors.

Class Standing	Criteria
Freshman (9 <sup>th</sup> grade) .....	A student in his/her first year of high school.
Sophomore (10 <sup>th</sup> grade) .....	A student in his/her second year of high school.
Junior (11 <sup>th</sup> grade).....	A student in his/her third year of high school. Students who do not earn 16.5 credits by the end of their third year of high school remain classified as juniors.
Senior (12 <sup>th</sup> grade) .....	A student in his/her fourth year or more of high school and has earned 16.5 or more credits.

Class standing shall be determined at the end of each semester. The administration will draft an administrative regulation to ensure appropriate notice to parents and students of their class standing.

Policy Adopted: July 5, 1983  
Policy Revised: February 19, 1991  
Policy Revised: December 21, 2004 (change effective August 2005)  
Policy Revised: May 1, 2007  
Policy Revised: May 6, 2008  
Policy Revised: October 9, 2008 (Added AR Reference)

# FNSBSD GRADUATION REQUIREMENTS

To receive the regular high school diploma presented by the School Board, students will be required to satisfactorily and fully complete a course of study that meets those requirements established by the State Board of Education and the district. Specific course requirements in each subject area are previously listed in this catalog. Students will meet the requirements in the Course Planner dated their freshman year. One-half (.5) credit is awarded for satisfactorily completing a required or elective course, which is one semester in length, and students will be required to complete a minimum of 22.5 credits distributed within the following subject areas:

<u>English</u>	<u>8 Semester Courses</u>	<u>4 Credits</u>
English 9 English 9 Honors	2 semesters	1 credit
English 10 English 10 Honors	2 semesters	1 credit
English 11: <ul style="list-style-type: none"> <li>• American Literature</li> <li>• American Writers</li> <li>• Early American Lit Honors</li> <li>• Modern Lit Classics</li> <li>• American Lit Classics (Native American Lit; African American Lit)</li> </ul>	1 semester	0.5 credit
English 12: <ul style="list-style-type: none"> <li>• Early British Literature</li> <li>• Modern British Lit</li> <li>• Shakespeare</li> <li>• Survey of British Lit</li> <li>• World Literature</li> <li>• Early British Lit Honors</li> <li>• Modern British Lit Honors</li> <li>• Survey of British Lit Honors</li> <li>• World Lit Honors</li> </ul>	1 semester	0.5 credit
English Electives	2 semesters	1 credit

## English AP/Honor Options

English 9 Honors	2 semesters	1 credit
English 10 Honors	2 semesters	1 credit
AP English Language & American Literature	<ul style="list-style-type: none"> <li>• 1 semester requirement</li> <li>• 2 semesters- fulfills American Lit</li> </ul>	1 credit
AP Literature & Composition	<ul style="list-style-type: none"> <li>• 1 semester requirement</li> <li>• 2 semesters- fulfill Brit/World Lit</li> </ul>	1 credit

## Math

### 6 Semester Courses

### 3 Credits

Algebra 1	2 semesters	1 credit
Foundations + Algebra 1.1	2 semesters	1 credit (Math Elective)
Algebra 1.2 + Algebra 1.3	2 semesters	1 credit (Algebra 1 requirement)
Additional Math Credits	4 semesters	2 credits

**Science****6 Semester Courses****3 Credits**

Physical Science <ul style="list-style-type: none"> <li>• AP Chemistry</li> <li>• AP Physics I/II/C</li> <li>• Chemistry I/II</li> <li>• Conceptual Physics</li> <li>• Earth &amp; Space</li> <li>• Natural Resources- Physical Science</li> <li>• Physical Science</li> <li>• Physics</li> <li>• Principals of Engineering</li> </ul>	2 semesters	1 credit
Biological Science <ul style="list-style-type: none"> <li>• AP Biology</li> <li>• Biology</li> <li>• Honors Biology A/B</li> <li>• Natural Resources- Biology</li> </ul>	2 semesters	1 credit
Additional Science	2 semesters	1 credit

**Social Studies****7 Semester Courses****3.5 Credits**

Alaska Studies	1 semester	0.5 credit
World Studies <ul style="list-style-type: none"> <li>• World Geography</li> <li>• Global Issues</li> <li>• World History I/II</li> <li>• AP European History &amp; Literature</li> </ul>	2 semesters	1 credit
American Studies <ul style="list-style-type: none"> <li>• AP U.S. History</li> <li>• Recent U.S. History I/II</li> </ul>	2 semesters	1 credit
Contemporary Government Studies <ul style="list-style-type: none"> <li>• AP Government &amp; Politics</li> <li>• American Legal Systems</li> <li>• American Government</li> </ul>	1 semester	0.5 credit
	2 semesters (2 class period blocks)	2 credits (1 credit = English 10 + 1 credit = World Studies)

**Health****1 Semester Course****0.5 Credit**

Health	1 semester	0.5
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**Physical Education\*****3 Semester Courses****1.5 Credits**

*One-quarter (0.25) credit for the Physical Education requirement may be waived for each full season of participation in approved interscholastic or intramural athletic competition. The total credit waived shall not exceed one-full credit (1.0). Elective credit must be earned to replace the waived amount (up to 1.0 credit) in any elective. A waiver of credit under this section does not affect the overall minimum requirements for graduation credits.		
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# HUTCHISON HIGH SCHOOL CREDIT WORKSHEET

	9th		10th		11th		12th	
	S1	S2	S1	S2	S1	S2	S1	S2
English (4 credits required for graduation)	English 9 Semester 1 .5	English 9 Semester 2 .5	English 10 Semester 1 .5	English 10 Semester 2 .5	English 11 .5	English Elective .5	English 12 .5	English Elective .5
Mathematics (3 credits required for graduation)	Algebra I .5	Algebra I .5	Additional Math .5	Additional Math .5	Additional Math .5	Additional Math .5	Additional Math .5	Additional Math .5
Science (3 credits required for graduation)	Physical Science .5	Physical Science .5	Life Science .5	Life Science .5	Additional Science .5	Additional Science .5	Additional Science encouraged .5	Additional Science encouraged .5
Social Studies (3.5 credits required for graduation)		Alaska Studies .5	World History Semester 1 .5	World History Semester 2 .5	US History Semester 1 .5	US History Semester 2 .5	American Government .5	Economic Studies .5
Health (.5 credits required for graduation) P.E. (1.5 credits required for graduation)	Health .5	PE .5	PE .5	PE .5	PE Waiver .25	PE Waiver .25	PE Waiver .25	PE Waiver .25
Electives (7 credits required for graduation)	.5	.5	.5	.5	.5	.5	.5	.5

(Note: Taking additional credits is encouraged and students with 24+ credits wear a medallion at the graduation ceremony)

22.5 Credits required for graduation  
24+ Credits Medallion \_\_\_\_\_

AK Performance Scholarship  
Collegiate \_\_\_\_\_ CTE \_\_\_\_\_  
Math & Science Curriculum \_\_\_\_\_  
Social Studies & Language Curriculum \_\_\_\_\_

ACT \_\_\_\_\_  
SAT \_\_\_\_\_  
SAT Subject \_\_\_\_\_  
WorkKeys \_\_\_\_\_

NCAA Registered \_\_\_\_\_  
Core Courses Div 1 \_\_\_\_\_  
Div 2 \_\_\_\_\_

Excused periods will be limited to seniors who have a cumulative and current GPA of 2.0 or above, no current F's and who are on track for graduation.  
Only one excused period per semester will be allowed.

# ALASKA PERFORMANCE SCHOLARSHIP

Class of 2015 & Beyond

## ALASKA PERFORMANCE SCHOLARSHIP



### Collegiate Eligibility Checklist

Students with qualifying SAT/ACT scores may use either the CTE or Collegiate Award.  
To apply for the APS students must complete a FAFSA (Free Application for Federal Student Aid) by June 30th of each year.

Level 1	Level 2	Level 3
UP TO <b>\$4,755</b> per year	UP TO <b>\$3,566</b> per year	UP TO <b>\$2,378</b> per year
<input type="checkbox"/> CURRICULUM	<input type="checkbox"/> CURRICULUM	<input type="checkbox"/> CURRICULUM
<input type="checkbox"/> GPA <b>3.5</b> (or greater)	<input type="checkbox"/> GPA <b>3.0</b> (or greater)	<input type="checkbox"/> GPA <b>2.5</b> (or greater)
<input type="checkbox"/> TEST SCORES ACT 25 (only one required) SAT 1680	<input type="checkbox"/> TEST SCORES ACT 23 (only one required) SAT 1560	<input type="checkbox"/> TEST SCORES ACT 21 (only one required) SAT 1450

### Math & Science Curriculum

4 UNITS MATH				
4 UNITS SCIENCE				
4 UNITS LANGUAGE ARTS				
4 UNITS SOCIAL STUDIES				

OR

### Social Studies & Language Curriculum

2 UNITS WORLD LANGUAGE				must be the same foreign, Alaska Native, or American Sign language
3 UNITS MATH				
3 UNITS SCIENCE				
4 UNITS LANGUAGE ARTS				
4 UNITS SOCIAL STUDIES				

06/28/2013

#### MATH

- standard courses
- algebra 1
  - algebra 2
  - geometry
  - trigonometry
  - pre-calculus
  - calculus
  - calculus 2
  - statistics

#### SCIENCE

- standard courses
- physical science
  - earth science
  - biology
  - chemistry
  - physics
  - marine biology
  - anatomy & physiology

#### LANGUAGE ARTS

- standard courses
- composition
  - American literature
  - world literature
  - speech & debate
  - advanced composition
  - creative writing
  - British literature

#### SOCIAL STUDIES

- standard courses
- world history
  - American history
  - geography
  - American government
  - civics
  - economics
  - Alaska history
  - western civilization
  - eastern civilization
  - psychology
  - sociology

Each school district is responsible for providing students with a complete list of all courses that qualify for the APS.

Districts may include two APS qualifying course categories – standard and additional. Additional courses may be used as follows: for the Social Studies & Language Curriculum, one additional course is permitted in each subject area (math, science, language arts, and social studies). For the Math & Science Curriculum, one additional course each is permitted for math and language arts, two each are permitted for science and social studies. Also, (for the Math & Science Curriculum only) a foreign language, Alaska Native Language, American Sign Language, cultural heritage or fine arts course may be substituted for one standard course of social studies.

Contact your counselor for more information about APS-approved courses. Approved courses may also be available through resources such as Alaska's Learning Network (AKlearn.net) or the University of Alaska. Eligibility is determined based upon courses contained in your school's permanent student record.



Student GPA: \_\_\_\_\_

Student Test Score & Test Date: \_\_\_\_\_

Questions? Visit [APS.alaska.gov](http://APS.alaska.gov)



## On Track to Qualify? Get Ready to Put Your APS Award to Work!

To get the APS, you must file a FAFSA and be admitted (attending at least half time) to a qualifying program.  
The Collegiate APS Award can be used for certificate or degree programs.

### INITIAL AWARD CHECKLIST

### IMPORTANT TIPS:

My Institution	Institution:	All participating Alaska institutions are listed at APS.alaska.gov	<b>ORIENTATION TIP:</b> Sign up for your institution's New Student Orientation - learn about resources to help you succeed and connect to the campus community.
	Major/Program:		
Program Full-Time Eligible? Yes No			
Advisor Contact:			
Admissions	Admissions Application Deadline:	Before the deadlines – Complete your application, pay any fees, and provide all required documents.	<b>HOUSING TIP:</b> At some institutions, housing fills up fast, so if you plan to live on campus, be sure to submit your housing application early, too.
	Admissions Requirements:	Once accepted, let the institution know you plan to attend.	
	Accepted? Yes No	Conditional admission means you still must complete the process – submit final high school transcripts immediately after you graduate and meet any other conditions promptly.	
	Conditions Completed? Yes No N/A		
Financial Aid	FAFSA Filed? Yes No Date Filed:	File your FAFSA as soon after January 1 as possible but no later than June 30 (APS deadline). File by your institution's financial aid deadline to be considered for more financial aid.	
	Financial Aid Deadline:		
	Financial Aid Advisor Contact:		
Courses	Notified of Intent to Enroll? Yes No	Accept (or decline) the financial aid outlined in the school's award notice. Your APS may not appear in the first award notice. Tell your financial aid staff you plan to enroll using an APS. If you have significant other grant or scholarship aid, your APS amount may be affected – your financial aid staff can help with any questions.	
	Date Course Registration Opens:	Don't wait to register for classes! Sign up as soon as registration opens. Early registration is critical to get the right classes. If you need English and/or Math placement tests, take them as early as you can.	
	Financial aid certification window:		
	# of credits registered for:		
Deadlines to add/drop courses:			

### Now that you have the APS Award – Keep it!

My high school graduation date: \_\_\_\_\_ + 6 years = My APS expiration date: \_\_\_\_\_  
An APS can be used for no more than 8 semesters/12 quarters (4 academic years), for full-time or half-time attendance.

A new FAFSA must be filed every year: Year 1: \_\_\_\_\_ Year 2: \_\_\_\_\_ Year 3: \_\_\_\_\_ Year 4: \_\_\_\_\_

Continuing Eligibility	Cumulative GPA & Credits Completed	Satisfactory Academic Progress Requirements
	Year 1: Semester: ____ credits ____ GPA Final: ____ credits ____ cumulative GPA	During your 1st year, earn: 24 semester credits (12 if half-time) a 2.0+ cumulative GPA
	Year 2: Semester: ____ credits ____ GPA Final: ____ credits ____ cumulative GPA	
	Year 3: Semester: ____ credits ____ GPA Final: ____ credits ____ cumulative GPA	During future years, earn: 30 semester credits (15 if half-time) a 2.5+ cumulative GPA
	Year 4: Semester: ____ credits ____ GPA Final: ____ credits ____ cumulative GPA	
	You must also meet any satisfactory academic progress requirements of your postsecondary institution and program.	

Note:  
Students attending half time (at least six credits) receive a reduced award. If you switch from half-time to full-time status (or vice versa), the minimum credits you must earn depends on the award—half time or full time—you receive for each term.

Sign up for an Alaska Student Aid Portal (ASAP) account to monitor your APS eligibility and usage online.

Visit [APS.alaska.gov](http://APS.alaska.gov)

# ALASKA PERFORMANCE SCHOLARSHIP



## Career & Technical Eligibility Checklist

Career & Technical APS Awards are for CERTIFICATE programs and cannot be used for associate or other degrees.  
Students with qualifying SAT/ACT scores may use either the CTE or Collegiate Award.

Level 1	Level 2	Level 3
UP TO <b>\$4,755</b> <i>per year</i>	UP TO <b>\$3,566</b> <i>per year</i>	UP TO <b>\$2,378</b> <i>per year</i>
<input type="checkbox"/> CURRICULUM	<input type="checkbox"/> CURRICULUM	<input type="checkbox"/> CURRICULUM
<input type="checkbox"/> GPA <b>3.5</b> (or greater)	<input type="checkbox"/> GPA <b>3.0</b> (or greater)	<input type="checkbox"/> GPA <b>2.5</b> (or greater)
<input type="checkbox"/> TEST SCORES WORKKEYS 13* (ACT 25 or SAT 1680 may be used as a substitute)	<input type="checkbox"/> TEST SCORES WORKKEYS 13* (ACT 23 or SAT 1560 may be used as a substitute)	<input type="checkbox"/> TEST SCORES WORKKEYS 13* (ACT 21 or SAT 1450 may be used as a substitute)

\*A combined score of 13 or higher, with no score below 4, is required in Applied Math, Locating Information, and Reading for Information.

### Math & Science Curriculum

4 UNITS MATH				
4 UNITS SCIENCE				
4 UNITS LANGUAGE ARTS				
4 UNITS SOCIAL STUDIES				

OR

### Social Studies & Language Curriculum

2 UNITS WORLD LANGUAGE				must be the same foreign, Alaska Native, or American Sign language
3 UNITS MATH				
3 UNITS SCIENCE				
4 UNITS LANGUAGE ARTS				
4 UNITS SOCIAL STUDIES				

06/28/2013

- #### MATH
- standard courses
- algebra 1
  - algebra 2
  - geometry
  - trigonometry
  - pre-calculus
  - calculus
  - calculus 2
  - statistics

- #### SCIENCE
- standard courses
- physical science
  - earth science
  - biology
  - chemistry
  - physics
  - marine biology
  - anatomy & physiology

- #### LANGUAGE ARTS
- standard courses
- composition
  - American literature
  - world literature
  - speech & debate
  - advanced composition
  - creative writing
  - British literature

- #### SOCIAL STUDIES
- standard courses
- world history
  - American history
  - geography
  - American government
  - civics
  - economics
  - Alaska history
  - western civilization
  - eastern civilization
  - psychology
  - sociology

Each school district is responsible for providing students with a complete list of all courses that qualify for the APS.

Districts may include two APS qualifying course categories – standard and additional. Additional courses may be used as follows: for the Social Studies & Language Curriculum, one additional course is permitted in each subject area (math, science, language arts, and social studies). For the Math & Science Curriculum, one additional course each is permitted for math and language arts, two each are permitted for science and social studies. Also, (for the Math & Science Curriculum only) a foreign language, Alaska Native Language, American Sign Language, cultural heritage or fine arts course may be substituted for one standard course of social studies.

Contact your counselor for more information about APS-approved courses. Approved courses may also be available through resources such as Alaska's Learning Network (AKlearn.net) or the University of Alaska. Eligibility is determined based upon courses contained in your school's permanent student record.

To apply for the APS students must complete a FAFSA (Free Application for Federal Student Aid) by June 30<sup>th</sup> of each year.



Student GPA: \_\_\_\_\_

Student Test Score & Test Date: \_\_\_\_\_

Questions? Visit [APS.alaska.gov](http://APS.alaska.gov)



## On Track to Qualify? Get Ready to Put Your Award to Work!

To get the APS, you must file a FAFSA and be admitted (attending at least half time) to a qualifying program. Career & Technical APS Awards are for certificate programs and cannot be used for associate or other degrees.

### INITIAL AWARD CHECKLIST

### TIPS:

My Institution

Institution:	<p>The CTE APS is for qualifying Alaska career and technical certificate programs. Participating institutions and eligible programs are listed online at <a href="http://APS.alaska.gov">APS.alaska.gov</a>. Programs requiring fewer than 24 credits, or less than 30 clock hours per week for at least 12 weeks may be eligible for half-time awards.</p> <p>Occupational Endorsement Certificates (OECs) and private pilot programs are not eligible.</p> <p>Meet with an enrollment or academic advisor and let them know you plan to attend with an APS.</p>
Major/Program:	
Program Full-Time Eligible? Yes No	
Advisor Contact:	

Admissions

Admissions Application Deadline:	Before the deadlines – complete the application, pay any fees, and provide all required documents.	<p><b>HOUSING TIP:</b></p> <p>At some institutions, housing fills up fast, so if you plan to live on campus, be sure to submit your housing application early, too.</p>
Admissions Requirements:	Once accepted, let the institution know you plan to attend.	
Accepted? Yes No	Conditional admissions means you still must complete the process—submit final high school transcripts immediately after you graduate and meet any other conditions promptly.	
Conditions:		
Conditions Completed? Yes No N/A		

Financial Aid

FAFSA Filed? Yes No Date Filed:	<p>File your FAFSA as soon after January 1 as possible but no later than June 30 (APS deadline). Be sure to file by your institution's financial aid deadline to be considered for more financial aid.</p> <p>Accept (or decline) the financial aid outlined in the school's award notice. Your APS may not appear in your first award notice. Tell your financial aid staff you plan to attend using an APS. If you have significant other grant or scholarship aid, your APS amount may be affected – your financial aid staff can help with any questions.</p>
Financial Aid Deadline:	
Financial Aid Advisor Contact:	
Notified of Intent to Enroll? Yes No	

Courses

Date Course Registration Opens:	<p>Make sure you are registered for sufficient credits/clock hours. If you are responsible for registering for your own classes, register as soon as course registration opens. If you need English and/or Math placement tests, take them as early as you can – and remember to prepare for them!</p> <p>If you're in a credit-based program, find out your school's financial aid certification deadline. Before that date, register for 12 or more credits to receive a full-time APS, or 6 to 11 credits for a half-time APS.</p>
Financial aid certification window:	
# of credits registered for:	
Deadlines to add/drop courses:	

### Now that you have the APS Award – Keep it!

Continuing Eligibility

<p>My high school graduation date: _____ + 6 years = My APS expiration date: _____</p>		<p>You must also meet applicable satisfactory academic progress requirements of your postsecondary institution and program.</p> <p>NOTE: Only one year of an award will be made for a single career and technical certificate program, regardless of program length. The CTE APS award cannot be used for other degree types, such as associate's or bachelor's. Occupational endorsement certificates and private pilot's programs are also not eligible.</p> <p>You may use the CTE APS to complete consecutive certificate programs. An APS may be used for no more than 8 semesters/12 quarters (4 academic years), for full-time or half-time attendance.</p>
<p><b>Cumulative GPA &amp; Credits Completed</b></p> <p>Credit-Based Certificate Program:</p> <p>Semester: _____ credits _____ GPA</p> <p>Final: _____ credits _____ cumulative GPA</p>	<p><b>Satisfactory Academic Progress Requirements</b></p> <p>In a credit-based certificate program, earn:</p> <ul style="list-style-type: none"> <li>⊕ 24 semester credits for a full-time award</li> <li>⊕ 12 semester credits for a half-time award</li> <li>⊕ a 2.0+ cumulative GPA</li> </ul>	
<p><b>Non-Credit-Based Certificate Program:</b></p> <p>Clock Hours: _____</p> <p># of Weeks: _____</p>	<p>In a non-credit based certificate program, attend:</p> <ul style="list-style-type: none"> <li>⊕ at least 30 clock hours per week for not less than 12 weeks for a full-time award</li> <li>⊕ at least 15 clock hours per week for not less than 6 weeks for a half-time award</li> </ul>	

Sign up for an Alaska Student Aid Portal (ASAP) account to monitor your APS eligibility and usage online.

Visit [APS.alaska.gov](http://APS.alaska.gov)

# eLearning

## What is eLearning?

**eLearning is when a student takes an online class at FNSBSD.**

- Online classes are an online asynchronous (not real-time) web-based environment with reading, videos, discussions, assignments and tests.
- Students attend an eLearning lab at a high school to complete the course.
- Students can work at their own pace, in their own place and on their own path.
- Chromebooks are provided in the eLearning labs.

## Is eLearning for me?

Here are some questions to ask yourself:

- Can I work and manage my time independently?
- Do I like to work at my own pace?
- Am I willing to practice good study skills?
- Am I willing to work outside of school to complete my reading and assignments?
- Do I have good reading skills (at grade level) or am I willing to use audio features to support my understanding?
- Can I utilize the technology skills necessary to complete the course?

## eLearning FAQ's

When and where do I take this class?

- Students take an eLearning class during the school day in the eLearning lab with a facilitator.

Is eLearning hard?

- Course content is from Apex Learning and is rigorous. Many courses involve a good amount of reading. It is important to understand that these courses will take time and devotion to complete. Students should plan on spending time outside of the school day working on e-Learning courses.

Who will be my online teacher for my courses?

- All courses have a highly qualified teacher from FNSBSD, except Mandarin, Latin and German which have Apex Virtual Learning Teachers.

Who will be in the eLearning lab?

- FNSBSD qualified teachers will support you in the eLearning labs to help you complete your courses and answer questions you have with content or technology.

Will I be able to drop the class if I do not like it?

- E-Learning courses will follow the same policy as any high school course. Students will only be allowed to drop the course within the first 10 days without penalty.

## FNSBSD 2018-19 eLearning Course Options

Student Name \_\_\_\_\_

Parent Name \_\_\_\_\_

Grade \_\_\_\_\_ GPA \_\_\_\_\_

Parent Email \_\_\_\_\_

Student Email \_\_\_\_\_

### ENGLISH

- English 9 SM1 SM2 CR
- English 10 SM1 SM2 CR
- English 11 SM1 SM2 CR
- English 12 SM1 SM2 CR
- AP Eng. Language & Composition SM1 SM2
- AP Eng. Literature & Composition SM1 SM2
- Creative Writing SM

#### Not NCAA Approved Courses

- Media Literacy SM
- Reading Skills & Strategies SM **Not APS Approved**
- Writing Skills & Strategies SM **Not APS Approved**

### MATH

- Algebra 1 SM1 SM2 H CR
- Geometry SM1 SM2 H CR
- Algebra 2 SM1 SM2 H CR
- Precalculus SM1 SM2 H
- AP Calculus AB SM1 SM2
- AP Statistics SM1 SM2
- Probability & Statistics SM

#### Not APS or NCAA Approved Courses

- Liberal Arts Math 1 SM1 SM2
- Mathematics of Personal Finance SM1 SM2
- Financial Literacy SM

### SCIENCE

- Earth Science SM1 SM2 H
- Biology SM1 SM2 H CR
- Physical Science SM1 SM2 H CR
- Chemistry SM1 SM2 H CR
- Physics SM1 SM2 H CR

### OTHER

#### Not APS or NCAA Approved Courses

- College & Career Preparation I SM
- College & Career Preparation II SM
- Health SM
- Physical Education SM

### WORLD LANGUAGES

- Spanish 1 2 SM1 SM2 H
- Spanish 3 SM1 SM2
- AP Spanish Language
- French 1 2 SM1 SM2 H
- Mandarin Chinese I II SM1 SM2 \*\*
- Latin 1 2 SM1 SM2 \*\*
- German 1 2 SM1 SM2 \*\*

### GLOBAL STUDIES

- Honors World History Since the Renaissance SM1 SM2
- CR World History S1 S2
- Modern World History from 1600 SM1 SM2
- U.S. History Since the Civil War SM1 SM2 CR H
- AP US History S1 S2
- U.S. Government & Politics SM H CR
- AP U.S. Government & Politics
- U.S. Global Economics SM H CR
- AP Microeconomics SM
- AP Macroeconomics SM
- Multicultural Studies SM
- Psychology SM AP
- Sociology SM

### CTE

#### Not APS or NCAA Approved Courses

- Business Applications SM
- Introduction to Health Science SM
- Intermediate Health Science SM
- Information Technology Applications SM
- Introduction to Business & Marketing SM
- Public Health: Discovering the Big Picture SM
- Introduction to Law, Police & Corrections SM
- Intermediate to Business & Marketing SM

#### KEY:

H = Honors  
 AP = Advanced Placement  
 CR = Credit Recovery (NOT NCAA Approved)  
 \*\* = only available through APEX Learning Virtual School  
 SM = One semester class  
 S1 = Semester 1 class  
 S2 = Semester 2 class

Student Signature \_\_\_\_\_

Parent Signature \_\_\_\_\_

Counselor Signature \_\_\_\_\_

Date \_\_\_\_\_

# AHEAD PROGRAM

## AHEAD PROGRAM

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The AHEAD Program is designed to add structure to the currently existing informal method of enrolling high school students at UAF. High school students who want to receive academic advising, official admission into UAF with degree-seeking status (an advantage in the registration process), and dual high school and university credit will want to enroll at UAF through the AHEAD Program. Participation is voluntary, and some students may still want to proceed independently in the Dual Enrollment Program or pursue TECH PREP opportunities.

### Goals and Objectives

- Admit qualified high school students into UAF as concurrently enrolled students (simultaneously enrolled for credit in high school and university courses).
- Provide eligible high school students official UAF admittance (with degree-seeking, freshmen status), thereby enabling students to take advantage of early orientation and registration programs.
- Foster planned, cooperative advising among the high school student, parents, high school counselor and/or teacher, and the UAF AHEAD coordinator.
- Provide local high school students with unique opportunities for enriched scholastic and talent development.

### General Program Description

High school students with exceptional general scholastic and/or specific talent abilities will be introduced to the AHEAD Program during their freshman year of high school. Examples of subjects that may be used for concurrent enrollment include mathematics, computer science, English, art, music, and theatre; however, this is not an exhaustive list.

While planning for entrance into the program is encouraged during the freshman year of high school, nothing precludes identification of participants in their sophomore or junior year. However, the earlier the participation in the AHEAD Program, the better the opportunity for planning an integrated high school and university curriculum which best meets the needs of the participants.

The AHEAD Program will occur in the following three phases:

- ..... *Information and Planning*: Information about this program will be provided to all interested students and their parents. Early identification of possible participants in the program will facilitate planning and enhance the integration of the high school and university curricula to best meet the needs of each individual enrollee. High school students should strive to complete as many high school requirements as possible through the end of their junior year. This will leave the senior year more open for the inclusion of university-level courses.

Courses to be taken for dual credit should be carefully planned and pre-approved during this phase. Students must complete outside credit forms prior to the start of each semester in order to receive high school credit for UAF classes. The counselors in each high school will expedite requests for dual credit, and the registrar in each high school will be responsible for getting the appropriate paperwork to the UAF AHEAD coordinator. An admitted and enrolled student who has successfully completed a university course, automatically receives university credit for that course and establishes a UAF academic record. However, the degree to which a



selected university course meets high school credit and graduation requirements is determined by the school district.

- ..... *Admissions and Enrollment:* Admittance to UAF is based on an evaluation of GPA and coursework. A minimum high school grade point average of 2.50 is required. Students must take the ACT or SAT test prior to enrolling in UAF classes. In addition, applicants must have completed 75% of the high school academic core curriculum required for admission as freshmen at UAF or be able to demonstrate progress equivalent to 75% of the core.

Students wishing to enter the program will complete the AHEAD application, along with all of the necessary recommendations required on the form, and return it to the high school registrar. The registrar will then be responsible for forwarding the application to the AHEAD coordinator at UAF. Each application will be evaluated to include a review of the student's qualifications and his/her ability to succeed and benefit from participation in the program. The AHEAD coordinator will then call the student to schedule an interview. Paperwork should be processed with UAF application deadlines in mind (August 1 for fall registration, December 1 for spring registration, and March 1 for summer registration).

Tuition and fees for concurrently enrolled students are based on the current tuition and fee rates and are the responsibility of the students/parents. The FNSBSD will not pay tuition costs, but the registrar in each high school may be able to provide information about possible sources of funding.

- ..... *Orientation and Advising:* Students accepted into the AHEAD Program will attend an orientation and early registration program held in late April for incoming freshmen for the following fall semester at UAF. Usually this will occur during the spring semester of the students' high school junior year. At this time, students will meet with the UAF academic advisor and finalize plans for courses for the year. Actual registration for the fall semester will be done at this time. Students will be eligible for priority (early) registration for the spring semester that will be held in November.

**Contact your counselor if you are interested in the AHEAD Program.**

# ACT / SAT

## ACT TEST DATES

School Year 2018-2019

Anticipated Test Dates *
September 8, 2018
October 27, 2018
December 8, 2018
February 9, 2019
April 13, 2019
June 8, 2019

\*For exact test dates, online registration, and more information: <http://www.act.org>

## SAT TEST DATES

School Year 2018-2019

Anticipated Test Dates **	Test
August 25, 2018	SAT & Subject Tests
October 6, 2018	SAT & Subject Tests
November 3, 2018	SAT & Subject Tests
December 1, 2018	SAT & Subject Tests
May 4, 2019	SAT & Subject Tests
June 1, 2019	SAT & Subject Tests

\*\* For exact test dates, online registration, and more information: <http://www.collegeboard.com>

Hutchison High School  
3750 Geist Road  
Fairbanks, Alaska 99709  
(907) 479-2261

School Code Number: Enter this number on your Mail Registration Form or on your On-Line Registration Form.

**0 2 0 1 6 1**

# OUTSIDE CREDIT REQUEST

**Outside Credit requests are to be submitted BEFORE registering for the course.** In extenuating circumstances, “After the Fact” outside credit requests submitted within one semester after the completion of the course may be considered, but require approval from the Executive Director of Teaching & Learning to receive credit. Any requests submitted more than once semester after the completion of the course **will not be accepted**. For updated information and an outside credit form, visit [www.k12northstar.org/OutsideCredit](http://www.k12northstar.org/OutsideCredit).

## ADMINISTRATIVE REGULATION

984.3

### 984.3 Outside Credit

The purpose is to establish standards and procedures for high school students taking high school or university level courses for credit outside the Fairbanks North Star Borough School District.

Any student requesting outside credit must meet the following criteria:

- Approval from the Executive Director of Teaching & Learning must be obtained prior to registering for the class (see 984 - Appendix A – Outside Credit Request Form).
- The course must meet the following criteria:
  - The course syllabus will include: topics covered; materials being used; assignments required; grading policy; and instructor's name and credentials.
  - The course may have an on-the-job-training component, but it is not to be the main focus of the course.
- The course must be completed during the school year in which it is begun. Summer courses need to be completed prior to the start of school.
- If the student needs the outside credit course in order to graduate in May:
  - i) the student must be enrolled in the course by the first Friday after spring break;
  - ii) it is suggested the final examination for any online course be taken by April 15, in order to allow time for retakes; and
  - iii) the final grade from the outside credit course must be reported to the school five (5) days prior to the school's graduation.
- It is the responsibility of the student to get the appropriate paperwork, grade, etc., to his or her school's counseling department.

#### Eligibility for Student Activities

Outside credit will only be counted towards eligibility when completed and recorded on the student's transcript. The student is advised to see his or her counselor for information and details.

#### Alaska Performance Scholarship Eligibility

Outside credit received through an accredited vendor may be submitted for APS eligibility consideration. Courses used for APS must meet the requirements for rigor established by the Alaska Department of Education & Early Development.

#### High School Grades – Course Retakes

Outside credit courses are not considered course retakes for purposes of computing GPA and do not replace previously earned grades. (Refer to AR 974.1 B#5)

#### College Credit Conversion to High School Credit:

The determination of academic college course credit versus high school credit is as follows:

University Credit Hour		High School Level Credit
1.00	=	.10
2.00	=	.25
3.00	=	.50
4.00	=	.65
5.00	=	.80
6.00	=	1.00

University of Alaska Fairbanks courses pertaining to music and vocational education may be eligible for more credit than reflected above.

Approved: October 20, 1995  
Revised: September 24, 1997  
Revised: May 5, 2004  
Revised: July 29, 2008  
Revised: August 31, 2009

Revised: October 31, 2011  
Revised: November 14, 2011  
Revised: August 19, 2013  
Revised: October 6, 2014  
Revised: May 19, 2016



## HIGH SCHOOL OUTSIDE CREDIT REQUEST FORM

*Please review Administrative Regulation 984.3 on the back side of form.*

**INSTRUCTIONS:** Students wishing to take courses outside of their regular high school offerings for high school credit may do so with PRIOR administrative approval. The student must complete this form, with assistance from the school counselor/principal, as follows:

- Obtain all school-level and parent signatures.
- Attach a detailed course syllabus (including topics covered, instructional goals of course, materials being used, assignments required, grading policy, criteria for successful completion, instructional time requirements, and instructor's name and credentials).
- Submit this form (*through your school counseling office*) to the Teaching & Learning department at the School District Administrative Center. The request must be reviewed and signed by the Executive Director of Teaching & Learning to indicate approval BEFORE the student may register for the outside credit course.

**IMPORTANT:**

- It is the responsibility of the student to get the appropriate paperwork, grade, etc., to his/hers school counseling department after completion of the course.
- Eligibility for Student Activities – Outside credit will only be counted towards eligibility when completed and recorded on the student's transcript. The student is advised to see his or her counselor for information and details.
- High School Grades – Course Retakes – Outside credit courses are not considered course retakes for purposes of computing GPA and do not replace previously earned grades.

Student Name	Student ID #	Phone #
Current High School	Current Class Standing (check one) <input type="checkbox"/> 8 <sup>th</sup> Graduate <input type="checkbox"/> 9 <sup>th</sup> <input type="checkbox"/> 10 <sup>th</sup> <input type="checkbox"/> 11 <sup>th</sup> <input type="checkbox"/> 12 <sup>th</sup>	

**Outside Credit is Requested for:**

Course Title	
Institution Offering Course	Course Number
Course Meeting Dates and Times <input type="checkbox"/> Fall <input type="checkbox"/> Spring <input type="checkbox"/> Summer   Year-20__	
Number of high school credits requested for this course	Number of outside credits already received

I have read and understand the terms and conditions of taking outside credit courses, particularly the potential impact on my graduation, as outlined in Administrative Regulation 984.3.

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Recommendations: (*signatures indicate approval recommended*)

Parent/Guardian: \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_  Student is 18+

Counselors: This course is: <input type="checkbox"/> Required <input type="checkbox"/> Elective   Specify Credit Code: _____	
If Alaska Performance Standards, specify which APS-approved FNSBSD course is equivalent: _____	
School Counselor _____	Signature _____ Date _____
School Principal _____	Signature _____ Date _____

Recommendation for APS

Outside Credit Coordinator \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_  Yes    No

**APPROVAL**

Executive Director of Teaching & Learning

Signature \_\_\_\_\_ Date \_\_\_\_\_  YES    NO

Updated: May 19, 2016



# Application to Waive 1/4-Credit of the Physical Education Graduation Requirement

Students may have 1/4-credit of the physical education requirement waived for each full season of participation in approved interscholastic or intramural athletic competition. The total credit waived shall not exceed one-full credit. Elective credit must be earned to replace the physical education requirement that is waived. A waiver of credit under this section does not affect the overall minimum requirements of 22.5\* credits. (\* 22 credits for the class of 2010)

**Directions for the Student:** Please provide the information requested in Part I of this form (including all signatures) and return the form to your counselor. Information will be verified and you will receive an approved copy of the waiver. If you have any questions, please see your counselor.

**Part I**

Student Name	Grade	School
List of Approved Interscholastic or Intramural Athletic Activities (check one)		
<input type="checkbox"/> Badminton	<input type="checkbox"/> Football	<input type="checkbox"/> Softball
<input type="checkbox"/> Baseball	<input type="checkbox"/> Gymnastics	<input type="checkbox"/> Swimming
<input type="checkbox"/> Basketball	<input type="checkbox"/> Hockey	<input type="checkbox"/> Swing Dance
<input type="checkbox"/> Cheerleading	<input type="checkbox"/> Intramural Golf	<input type="checkbox"/> Tennis
<input type="checkbox"/> Cross-country Running	<input type="checkbox"/> JROTC **	<input type="checkbox"/> Track and Field
<input type="checkbox"/> Cross-country Skiing	<input type="checkbox"/> Rifle Team	<input type="checkbox"/> Volleyball
<input type="checkbox"/> Fencing	<input type="checkbox"/> Soccer	<input type="checkbox"/> Weight Lifting
**Courses with required fitness component		<input type="checkbox"/> Wrestling
Dates of Participation:                      from                      to		

Signatures:

Student	Date	Parent
	Date	Sponsor/ Coach
	Date	

**Part II: Verification of Participation**

Approval indicated by the following signatures:

\_\_\_\_\_  
Counselor's Signature Date

\_\_\_\_\_  
Signature of Principal/ Designee Date

# CHALLENGING COURSES BY EXAM



Fairbanks North Star Borough School District

## Process for Challenging a High School Course by Exam

Students who have completed 8<sup>th</sup> grade and those entering grades 9-12, who are currently enrolled in the FNSBSD, may challenge courses for high school credits. This option is designed to provide students the opportunity to demonstrate mastery through exam. It is not a process for credit recovery or course retakes.

### Testing Dates:

Specific testing dates will be scheduled and published at the beginning of each school year, and only select exams will be available. In order not to conflict with instructional time, exams may be administered on a Saturday.



**Only core courses and some world languages can be challenged.**

Courses are added as vendors are approved by the Department of Teaching & Learning, in meeting Alaska State Standards which are approved through Alaska Department of Education & Early Development (DEED). Students in grades 9-12 may take up to 2 challenge tests each exam date; students who have finished 8<sup>th</sup> grade but not yet started 9<sup>th</sup> may take only 1 challenge test. Contact the Department of Teaching & Learning (452-2000 ext. 11422) to see if a specific course is available.

Exam	Registration Deadline	Exam Date	Exam Start Times	Location
#1	<b>Friday, June 1</b>	Thursday, June 14, 2018	To be determined	FNSBSD Admin Center Curriculum Library (4th Floor) 520 Fifth Avenue
#2	<b>Friday, November 2</b>	Saturday, November 17, 2018	To be determined	FNSBSD Admin Center Curriculum Library (4th Floor) 520 Fifth Avenue
#3	<b>Friday, May 31</b>	Friday, June 14, 2019	To be determined	FNSBSD Admin Center Curriculum Library (4th Floor) 520 Fifth Avenue

### Registration and Fees:

Students must register to allow for adequate proctoring coverage. To register, go to [www.k12northstar.org/ChallengeExams](http://www.k12northstar.org/ChallengeExams). An \$85.00 fee will be required for each test at the time of registration. **The registration must be completed and the fee paid by the registration deadlines listed red in the above chart.**

Provide payment of the \$85 registration fee for each test (cash, check, or money order) to FNSBSD, Dept. of Teaching & Learning/ Attn: Flora Roddy, 520 Fifth Avenue (2<sup>nd</sup> floor, Suite D), Fairbanks, AK, 99701. Upon receipt of payment, a confirmation email will be sent.

Fee waivers: Students may be eligible for a fee waiver. If you have questions about an examination fee, please consult your counselor.

### Exam Administration:

Exams will be administrated at the FNSBSD Administrative Center, 520 Fifth Avenue, under the Department of Teaching & Learning's oversight. The special education coordinator, to assure the appropriate accommodations are met, will review a special education student's request. If accommodations are needed, please indicate this at the time of registration.

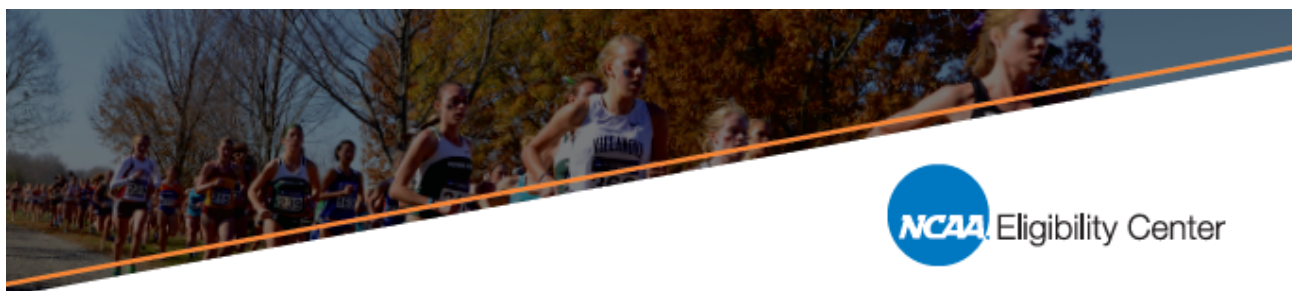
### Transcripts:

Scores of 80% or higher will earn high school credit. Exam scores of 80% - 89% will be designated a "B" and scores of 90% - 100% will be designated an "A." Credit will be reported on the student's transcript as "Credit by Exam." If the student receives less than 80% on the exam, no record will be made on the transcript.

The National Collegiate Athletic Association (NCAA) does not allow courses completed through credit-by-exam for eligibility purposes.

Credit-by-exam may be used for Alaska Performance Scholarship (APS) eligibility.

# NCAA DIVISION 1 ACADEMIC REQUIREMENTS

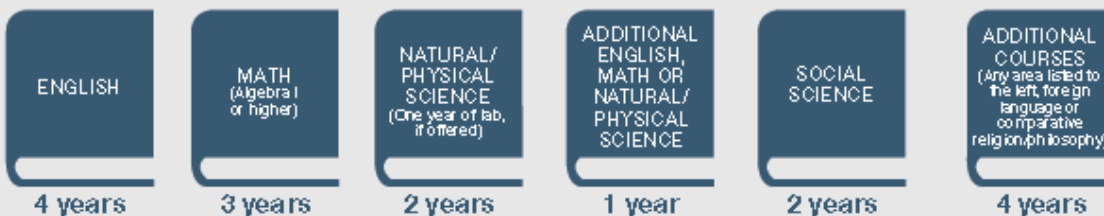


## DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletic scholarships, and/or compete during their first year.

### Core-Course Requirement

Complete 16 core courses in the following areas:



### Full Qualifier

- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### Academic Redshirt

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

### Academic Redshirt:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

### Nonqualifier:

College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

# Test Scores

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of 9999 so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will NOT be used in his or her academic certification.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscore from different tests are used to meet initial-eligibility requirements.

If a student took the SAT before March 2016 and then took the redesigned SAT at a later date, the NCAA Eligibility Center will not combine section scores from the old and redesigned SAT when determining his or her initial eligibility. The NCAA Eligibility Center will only combine section scores from the same version of the test. Because the redesigned SAT varies in design and measures different academic concepts than the old SAT, a numerical score on the old test may not be equivalent to the same numerical score on the redesigned test.

DIVISION I FULL QUALIFIER SLIDING SCALE		
CORE GPA	SAT READING/MATH	ACT SUM
3.580	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58

DIVISION I FULL QUALIFIER SLIDING SCALE		
CORE GPA	SAT READING/MATH	ACT SUM
2.750	720	59
2.725	730	60
2.700	740	61
2.675	750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840	70
2.425	850	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.299	910	76
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	81
2.125	970	82
2.100	980	83
2.075	990	84
2.050	1000	85
2.025	1010	86
2.000	1020	86

**ACADEMIC REDSHIRT**

NCAA is a trademark of the National Collegiate Athletic Association.



# 2018-2019 FNSBSD CALENDAR

Adopted by School Board: October 17, 2017  
 Revised by Administration:



520 Fifth Avenue, Fairbanks, AK 99701  
 k12northstar.org

## 2018

### July

S	M	T	W	T	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				

### August

S	M	T	W	T	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	

### September

S	M	T	W	T	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						

### October

S	M	T	W	T	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			

1<sup>st</sup> Quarter: 45 days

### November

S	M	T	W	T	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	

### December

S	M	T	W	T	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					

2<sup>nd</sup> Quarter: 47 days

- 2018 August**
- 8, 14 Teacher Work Days
  - 9-13 Professional Development
  - 15 First Day for Students
- September**
- 3 Labor Day (holiday)
  - 27 Staff Training Day (early out)
  - 28 Professional Development
- October**
- 12 End of 1<sup>st</sup> Quarter (early dismissal)
  - 25-26 Parent-Teacher Conferences
- November**
- 9 Staff Training Day (early out)
  - 12 Professional Development
  - 22-23 Thanksgiving (holiday)
- December**
- 18-20 Last 3 Days (early dismissal)
  - 20 End of 2<sup>nd</sup> Quarter (early dismissal)
  - 21 Winter Break - Begin

## 2019

### January

S	M	T	W	T	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

S	M	T	W	T	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		

### March

S	M	T	W	T	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						

3<sup>rd</sup> Quarter: 43 days

### April

S	M	T	W	T	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

S	M	T	W	T	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

S	M	T	W	T	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						

4<sup>th</sup> Quarter: 45 days

- 2019 January**
- 4 Winter Break - End
  - 7 Teacher Work Day (no school)
  - 21 Martin Luther King Jr. (holiday)
  - 31 Staff Training Day (early out)
- February**
- 1 Professional Development
  - 18-19 Parent-Teacher Conferences
- March**
- 8 End of 3<sup>rd</sup> Quarter (early dismissal)
  - 11-15 Spring Break
  - 25-29 Testing Window
- April**
- 1-30 Testing Window
- May**
- 15-17 Last 3 Days - Early Dismissal
  - 17 Last Day for Students
  - 20 Teacher Work Day

- School Start/End
- End of Quarter (early dismissal)
- { Testing Window
- Last 3 days (early dismissal)
- ◇ Staff Training Day (early dismissal)
- ◇ Professional Development Day (no school)
- Vacation/Holiday (no school)
- ▲ Parent-Teacher Conferences (no school)
- Teacher Work Day (no school)
- Tentative Make-Up Days for Bad Weather
- 1<sup>st</sup> semester: 92 days
- 2<sup>nd</sup> semester: 88 days

# PUBLIC NOTICE OF NON-DISCRIMINATION



Fairbanks North Star Borough School District

## PUBLIC NOTICE



The Fairbanks North Star Borough School District does not discriminate on the basis of race, ethnicity, color, religion, creed, sex, age, national origin, physical or mental disability, marital status, changes in marital status, pregnancy, parenthood, sexual orientation, gender identity or veteran status.

The Fairbanks North Star Borough School District does not discriminate on the basis of sex in violation of Title IX of the Education Amendments of 1972 in the educational programs or activities which it operates.

The Fairbanks North Star Borough School District does not discriminate on the basis of disability in violation of Section 504 of the Rehabilitation Act of 1973. This includes admission or access to, or treatment or employment in its programs, services, and activities.

Individuals requiring further information should contact the designated compliance director:

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