

North Pole
High School
Patriots



School Planner
2018-2019



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
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	25	26	27	28	29	30
	31					

August

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September

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30						

October

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November

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December

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30	31					

2019

January

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February

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March

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31						

April

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28	29	30				

May

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

June

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23	24	25	26	27	28	29
30						

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 1st 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 2nd Quarter (early dismissal)
- 21 Winter Break - Begin

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 3rd 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
- 1st semester: 92 days
- 2nd semester: 88 days

The courses listed in this planner are those, which North Pole High School may offer. Inclusion of these courses in the planner does not necessarily guarantee that they will be offered during the 2018-2019 school year.

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Notice of NondiscriminationInside Back Cover

Key: R = Repeatable Courses
 A = Alaska Performance Scholarship (APS) Approved
 N = National Collegiate Athletic Assoc. (NCAA) Approved
 (Located at end of 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. Please contact the Curriculum Department with any questions.

Fee Waivers

Fees are assessed for some elective courses. Students may be eligible for a fee waiver. If you have questions about a course fee, please consult your counselor.

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. Students will be required to complete a minimum of 22.5 credits*, and distributed within the following subject areas:

English	4 credits
English 9 -----	1 credit (2 semesters)
English 10 -----	1 credit (2 semesters)
English 11 -----	.5 credit (1 semester)
English 12 -----	.5 credit (1 semester)
English Elective-----	1 credit (2 semesters)
Health5 credits
Mathematics	3 credits
Algebra I -----	1 credit (2 semesters)
Additional Math -----	2 credits (4 semesters)
Physical Education	1.5 credits
One-quarter (.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. 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.	
Science	3 credits
Physical Science -----	1 credit (2 semesters)
Biological Science -----	1 credit (2 semesters)
Additional Science -----	1 credit (2 semesters)
Social Studies	3.5 credits
Alaska Studies -----	.5 credit (1 semester)
World Studies -----	1 credit (2 semesters)
American Studies -----	1 credit (2 semesters)
Contemporary Government Studies -----	.5 credit (1 semester)
Contemporary Economic Studies -----	.5 credit (1 semester)
Electives	7 credits
TOTAL	22.5 credits

Specific course requirements in each subject area are set forth in the Fairbanks North Star Borough School District High School Course Catalog. Students will meet the requirements in the Course Catalog dated their freshman year.

Students must also take a College & Career Readiness Assessment (i.e., SAT, ACT, WorkKeys) or receive a waiver by the School Board per legal reference AS 14.03.075.

* One-half (.5) credit is awarded for satisfactorily completing a required or elective course, which is one semester in length.

ENGLISH

GRADUATION REQUIREMENTS:

4 Credits

Eight semesters of English are required. One semester of the English 11 and/or English 12 requirements may be met by a semester of English elective.

IMPORTANT NOTE REGARDING ENGLISH ELECTIVES: 11th graders are required to take one semester of an American Literature option class and 12th graders are required to take one semester of a British or World Literature option class. The other two semesters of English can be fulfilled with other English electives.

ENGLISH 9

Course #: EN212/213

Grade: 9

Length: 2 Semesters

Credit: 1

Prerequisite: None

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. This course fulfills two semesters of the *English 9* requirement. (A/N)

ENGLISH 9 HONORS

Course #: EN214/215

Grade: 9

Length: 2 Semesters

Credit: 1

Prerequisite: Teacher recommendation

This course is designed for advanced readers and writers capable of in-depth analysis and who are motivated to take this challenging course. Through a combination of composition, literature, and speaking experiences, this 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 and research skills, grammar, mechanics and usage, and vocabulary are also included. Students complete a short research paper/project in the second semester. This course fulfills two semesters of the English 9 requirement. (A/N)

ENGLISH 10

Course #: EN222/223

Grade: 10

Length: 2 Semesters

Credit: 1

Prerequisite: Successful completion of *English 9*

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 six 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 course fulfills two semesters of the *English 10* requirement. (A/N)

COLLEGE PREPARATORY COMPOSITION

Course #: EN226

Grade: 10 (11 - 12 Elective)

Length: One Semester

Credit: 0.5

Prerequisite: *English 10* or Teacher Recommendation

~WRITING INTENSIVE~

College Preparatory Composition prepares students for college-level writing, with an emphasis on formal expository writing using non-fiction models. Students are provided with diverse writing experiences, including a formal research paper. This course fulfills one semester of the *English 10* requirement, or a required English elective for grades 11-12. (A/N)

ENGLISH 10 HONORS

Course #: EN224/225

Grade: 10

Length: 2 Semesters

Credit: 1

Prerequisite: Successful completion of *English 9* and teacher recommendation

This course, a continuation of *English 9 Honors*, 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 six 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 course fulfills two semesters of the *English 10* requirement. (A/N)

ADVANCED COMPOSITION

Course #: EN259

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: English 10 Honors (or equivalent)

~WRITING INTENSIVE~

Advanced Composition is a rigorous experience in writing the various forms of exposition with emphasis on research, synthesis, and critical analysis. It is recommended for students with better than average ability, especially those who plan to attend college. (A/N)

ENGLISH 12: SURVEY OF BRITISH LITERATURE

Course #: EN247

Grade: 12

Length: One Semester

Credit: 0.5

Prerequisite: Senior Standing and *English 11*

This integrated course 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)

NON-FICTION WRITING

Course #: EN295

Grades: 11 - 12

Length: One Semester

Credit: 0.5

(Cross-credited with Career & Technical Education-Introductory & Capstone)

Prerequisite: Junior Standing or Teacher Recommendation

This challenging course 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)

ADVANCED PLACEMENT (AP) LITERATURE & COMPOSITION

Course #: EN252/253

Grade: 12

Length: 2 Semesters

Credit: 1

Prerequisite: Fourth year standing, completion of *English 11*, and teacher recommendation

Fee: AP exam approx. \$90

AP exam is strongly encouraged

This is a year-long honors level course for students of superior work habits and a willingness to be intellectually challenged. It is designed to provide a learning opportunity for those students capable of doing college level work and the possibility of gaining advanced placement and/or credit in college English, upon successful completion of the *AP English Literature and Composition* examination. This course provides a comprehensive background in the analysis of literature and requires a significant amount of independent reading and writing. **Teacher recommendation is required.** The first semester of this course fulfills the *English 12* requirement. The other semester fulfills the 12th grade English elective.

ENGLISH 11: AMERICAN WRITERS

Course #: EN236

Grade: 11

Length: One Semester

Credit: 0.5

Prerequisite: *English 10* and Junior Standing

This integrated course combines a survey of both early and 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. **(May not be taken if the student is taking or will be taking *Early or Modern American Literature*) (A/N)**

COMPOSITION & MEDIA ANALYSIS

Course #: EN201

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: English 10 or Teacher Recommendation

~WRITING INTENSIVE~

In Composition & Media Analysis, students will analyze various types of media through expository and argumentative writing. Students will research and study various types of media. Emphasis will be on the implications of the social and economic aspects of the media including advertising and propaganda. Additionally, students will write compositions about social issues. This course provides a common sense approach to a media-rich society. **(A)**

CREATIVE WRITING

Course #: EN268

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Junior Standing or Teacher Recommendation

~WRITING INTENSIVE~

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)**

Creative Writing II (Advanced) (Pilot at NPH)**Course #: EN2681P****Grades: 11-12****Length: One Semester****Credit: 0.5****Prerequisites: Creative Writing**

Creative Writing II (Advanced) emphasizes the use of techniques based on evaluating published models of creative nonfiction, poetry, fiction, and drama developed in Creative Writing. Students will master strategies for finding inspiration, drafting in various genres, accepting and offering meaningful critical feedback, and revising toward a publishable product. Additionally, students will participate in reading response groups, and reading or spoken word event(s) at the teacher's discretion. (A)

JOURNALISM: BEGINNING**Course #: EN281****Grades: 10 - 12****Length: One Semester****Credit: 0.5****Prerequisite: English 9 (or equivalent)**

This course serves as an introduction to newspaper writing conventions and technology. Students learn the basics of newspaper journalism including newsgathering, research, interviewing, and the role of journalism in society. Students write various types of news stories and design layout pages. (A)

SPEECH & DEBATE**Course #: EN293****Grades: 11 - 12****Length: One Semester****Credit: 0.5****Prerequisite: Junior Standing
or Teacher Recommendation**

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)

POPULAR NOVELS**Course #: EN290****Grades: 11 - 12****Length: One Semester****Credit: 0.5****Prerequisite: English 10 or Teacher Recommendation**

Popular Novels is designed for students who enjoy reading for pleasure and discussing current novels with other readers. The course is structured around current popular novels of merit. (A/N)

NON-FICTION WRITING**Course #: EN295****Grades: 11 - 12****Length: One Semester****Credit: 0.5****(Cross-credited with Career & Technical Education-Introductory & Capstone)****Prerequisite: Junior Standing or Teacher Recommendation**

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)

NATIVE AMERICAN LITERATURE

Course #: EN285

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Junior Standing and English 10

This course is a thematic approach to the study of Native American literature. Students respond to the literature orally, in writing, and in classroom presentations. Students will gain an understanding of the Native American culture and its role in, and contribution to, the mosaic of all cultures that make up our world. Students will learn appreciation for, and tolerance of, their own and others' cultures. (A/N)

PHILOSOPHY & LANGUAGE

Course #: EN289

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Junior Standing and English 10

Philosophy & Language will provide a brief introduction into the various components of Western philosophy, along with an analysis of the literary writings of key Western philosophers, organized in a chronological / thematic order, to introduce students to the history of ideas that have shaped Western thinking. A brief introduction into comparative philosophy will give students great understanding of ideas outside of Western thinking, and an appreciation of how different traditions may complement, rather than contradict one another. (A/N)

SPORTS LITERATURE

Course #: EN294

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Junior Standing or Teacher Recommendation

In *Sports Literature*, students will read, write, and discuss as a catalyst for examining culture and the influence of sports on our society. Students will critically analyze a variety of nonfiction, fiction, and contemporary media related to sports. Students will practice both informal and formal speaking and writing skills. (A/N)

JOURNALISM: BEGINNING

Course #: EN281

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: English 9 (or equivalent)

Beginning Journalism serves as an introduction to newspaper writing conventions and technology. Students learn the basics of newspaper journalism including newsgathering, research, interviewing, and the role of journalism in society. Students write various types of news stories and design layout pages. (A)

FINE ARTS

ART

ART I: 2D

Course #: AR020

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: Required (\$25 maximum per semester)

Art I: 2D is a foundation for all upper level art courses. This course covers the fundamental skills, knowledge, attitudes, and technology necessary to begin producing and understanding the visual arts. Students learn to create, present, respond, and connect. *Art I: 2D* will introduce students to a basic understanding of two-dimensional art through an exploration of drawing, painting, printmaking, and mixed media collage. This course teaches the use of elements of art and principles of design, art history, artist research, creative thinking skills, visual culture, and the development of studio attitudes and aptitudes. Media components may be explored and utilized. Portfolio development may be required.

ART I: 3D

Course #: AR021

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: Required (\$25 maximum per semester)

Art I: 3D is a foundation for all upper level art courses. This course covers the fundamental skills, knowledge, attitudes, and technology necessary to begin producing and understanding the visual arts. Students learn to create, present, respond, and connect. *Art I: 3D* will introduce students to a basic understanding of three-dimensional art through an exploration of ceramics, sculpture, jewelry, fiber art, and mixed media assemblage. This course teaches the use of elements of art and principles of design, art history, artist research, creative thinking skills, visual culture, and the development of studio attitudes and aptitudes. Media components may be explored and utilized. Portfolio development may be required.

ART II: 2D 1A/1B

Course #: AR106/107

Grades: 9 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

Prerequisite: Art I: 2D or Teacher Recommendation

Fee: Required (\$25 maximum per semester)

Art II: 2D is an intermediate level course where students refine their drawing, design, painting and printmaking skills. A variety of subject matter, materials and technologies will be used to solve two-dimensional visual problems. Students will continue to create, present, respond, and connect to art in their personal lives. Fall semester will focus on drawing and design skills. Spring semester will focus on painting and printmaking. Portfolio and sketchbook development may be required. Media components may be explored and utilized. Students intending to take *AP Studio Art: Drawing* or *2D Design* are encouraged to take two semesters of *Art II: 2D 1A/1B*.

ART II: 3D 1A/1B**Course #: AR109/110****Grades: 9 - 12****Length: One or Two Semesters****Credit: 0.5 or 1****Prerequisite: Art I: 3D or Teacher Recommendation****Fee: Required (\$25 maximum per semester)**

Art II: 3D is an intermediate level course where students will refine ceramic, sculpture, jewelry, fiber art, book arts, and assemblage skills. A variety of subject matter, materials and technologies will be used to solve three-dimensional visual problems. Students will continue to create, present, respond, and connect to art in their personal lives. Fall and spring semester will differ in content. Portfolio and sketchbook development may be required. Media components may be explored and utilized. Students intending to that *AP Studio Art: 3D Design* are encouraged to take two semesters of *Art II: 3D*.

ART III: 2D 1A/1B**Course #: AR111/1111****Grades: 9 - 12****Length: One or Two Semesters****Credit: 0.5 or 1****Prerequisite: Art II 2D or Teacher Recommendation****Fee: Required (\$25 maximum per semester)**

Art III: 2D is an advanced level course. Students will build on skills developed in *Art I: 2D* and *Art II: 2D*, by creating, presenting, responding, and connecting to artistic ideas and personal meaning. Students will continue to develop and refine the practice of studio production and studio thinking. They will continue to use and apply a knowledge of aesthetics and design, art history and culture, and valuing and critiquing. Students at this level will demonstrate a higher level of independent thought, and begin working on a breath of artwork designed to stimulate their creativity and originality. They will explore various media and methods and begin to develop a voice. Students will learn to work in a series in preparation for an AP or Honors Portfolio. Work in this course will increase in complexity, rigor, and personal expression. Portfolio and sketchbook development will be required. Media components may be explored and utilized. Students who attend to take *AP Studio Art: Drawing* or *AP Studio Art: 2D* should take two semesters of *Art III: 2D*. **(R – one time only)**

ART III: 3D 1A/1B**Course #: AR114/1144****Grades: 9 - 12****Length: One or Two Semesters****Credit: 0.5 or 1****Prerequisite: Art II 3D or Teacher Recommendation****Fee: Required (\$25 maximum per semester)**

Art III: 3D is an advanced level course. Students will build on skills developed in *Art I: 3D* and *Art II: 3D*, creating, presenting, responding, and connecting to artistic ideas and personal meaning. Students will continue to develop and refine the practice of studio production and studio thinking. They will continue to use and apply a knowledge of aesthetics and design, art history and culture, and valuing and critiquing. Students at this level will demonstrate a higher level of independent thought, and begin working on a breath of artwork designed to stimulate their creativity and originality. They will explore various media and methods and begin to develop a voice. Students will learn to work in a series in preparation for an AP or Honors Portfolio. Work in this course will increase in complexity, rigor, and personal expression. Portfolio and sketchbook development will be required. Media components may be

explored and utilized. Students who intend to take **AP Studio Portfolio 3D** should take two semesters of **Art III: 3D**.

(R – one time only)

SPECIAL TOPICS IN ART 1A/1B

Course #: AR026/127

Grades: 10 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

Prerequisite: Studio Art 1A/1B or Teacher Recommendation

Fee: Required (\$25 maximum)

Special Topics in Art provides serious art students an opportunity to investigate individual interest areas in the visual arts through supervised study. Self-discipline and a willingness to seek new challenges are expected. Students continue to make critical judgments about their own art and the art of others and are encouraged to relate the beauty and meaning of art to their lives. Students are expected to investigate the historical and contemporary role of art throughout the world. Portfolio development is required. Media components may be explored and utilized.

JEWELRY: BEGINNING 1A/1B

Course #: AR131/118

Grades: 10 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

Prerequisite: None

Fee: Required (\$30 maximum)

Beginning Jewelry 1A/1B covers the fundamental skills, knowledge, attitudes, and technology necessary to begin to understand jewelry. Various jewelry-making processes are explored as students work with different materials and tools. Students learn to make critical judgments about their own art and the art of others and are encouraged to relate the beauty and meaning of art to their lives. They are exposed to the historical and contemporary role of jewelry throughout the world. *Beginning Jewelry 1B* requires a greater degree of proficiency and higher expectations from students and teacher. Tools can be hazardous if used improperly; self-discipline is a must. A safety test must be passed before hazardous tools or materials may be used. Portfolio development may be required. Media components may be explored and utilized.

JEWELRY: INTERMEDIATE 1A/1B

Course #: AR119/120

Grades: 10 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

Prerequisite: Beginning Jewelry 1A/1B or Teacher Recommendation

Fee: Required (\$30 maximum)

Intermediate Jewelry continues to cover the fundamental skills, knowledge, attitudes, and technology necessary to begin to understand jewelry. Various jewelry-making processes are explored as students work with different materials and tools. Students learn to make critical judgments about their own art and the art of others and are encouraged to relate the beauty and meaning of art to their lives. They are exposed to the historical and contemporary role of jewelry throughout the world. *Intermediate Jewelry 1B* requires a greater degree of proficiency and higher expectations from students and teacher. Tools can be hazardous if used improperly; self-discipline is a

must. A safety test must be passed before hazardous tools or materials may be used. Portfolio development may be required. Media components may be explored and utilized.

JEWELRY: ADVANCED 1A/1B

Course #: AR072/073

Grades: 10 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

Prerequisite: Intermediate Jewelry 1A/1B or Teacher Recommendation

Fee: Required (\$30 maximum)

Advanced Jewelry 1A/1B continues to build on the skills, knowledge, attitudes, and technology necessary to create jewelry. Various jewelry-making processes are explored as students work with different materials and tools. Students learn to make critical judgments about their own art and the art of others and are encouraged to relate the beauty and meaning of art to their lives. They are exposed to the historical and contemporary role of jewelry throughout the world. *Advanced Jewelry 1B* requires a greater degree of proficiency and higher expectations from students and teacher. Tools can be hazardous if used improperly; self-discipline is a must. A safety test must be passed before hazardous tools or materials may be used. Portfolio development may be required. Media components may be explored and utilized.

FIBER ART: BEGINNING 1A/1B

Course #: AR090/091

Grades: 9 - 12

Length: One or Two Semesters

Credit: 0.5 or 1.0

Prerequisite: None

Fee: Required (\$30 maximum)

In *Beginning Fiber Art 1A/1B*, students will learn to use various fibers as a medium to produce art. Students learn to create and critique art and are encouraged to relate the beauty and meaning of art to their lives. This course stresses the use of the elements and principles of art, the study of artists, the improvement of creative thinking skills, and the process of learning to make informed judgments about art. Students are exposed to the historical and contemporary role of fiber art in Alaska, the nation, and the world. Students do not need to be proficient in drawing to enroll. Portfolio development may be required.

FIBER ART: INTERMEDIATE 1A/1B

Course #: AR092/093

Grades: 9 - 12

Length: One or Two Semesters

Credit: 0.5 or 1.0

Prerequisite: Beginning Art or Teacher Recommendation

Fee: Required (\$30 maximum)

In *Intermediate Fiber Art 1A/1B*, students will use various fibers as a medium to produce art. Students continue to create and critique art and are encouraged to relate the beauty and meaning of art to their lives. *Intermediate Fiber Art 1A/1B* stresses the use of the elements and principles of art, the study of fiber artists, the improvement of creative thinking skills, and the process of learning to make informed judgements about art. Students are exposed to the historical and contemporary role of fiber art in Alaska, the nation, and the world. Students do not need to be proficient in drawing to enroll. Portfolio development may be required.

FIBER ART: ADVANCED 1A/1B

Course #: AR094/095

Grades: 9 - 12

Length: One or Two Semesters

Credit: 0.5 or 1.0

Prerequisite: Intermediate Fiber Art 1A/1B or Teacher Recommendation

Fee: Required (\$30 maximum)

In *Advanced Fiber Art 1A/1B*, students will continue to refine the use of various fibers as a medium to produce art. Students continue to create and critique art and are encouraged to relate the beauty and meaning of art to their lives. *Advanced Fiber Art 1A/1B* stresses the use of the elements and principles of art, the study of fiber artists, the improvement of creative thinking skills, and the process of learning to make informed judgments about art. Students are exposed to the historical and contemporary role of fiber art in Alaska, the nation, and the world. Students will exhibit a greater level of proficiency, independence, and self-direction. Students do not need to be proficient in drawing to enroll. Portfolio development may be required.

STUDIO ART 1A/1B

Course #: AR001/128

Grades: 9 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

Prerequisite: None

Fee: Required (\$25 maximum)

Studio Art 1A/1B is recommended as a foundation for most other art courses. This primarily two-dimensional course covers fundamental skills, knowledge, attitudes, and technology necessary to begin producing and understanding the visual arts. Students learn to create and critique art and are encouraged to relate the beauty and meaning of art to their lives. This course stresses the use of the elements and principles of art, the study of artists, the improvement of creative thinking skills, and the process of learning to make informed judgments about art. Students are exposed to the historical and contemporary role of the arts in Alaska, the nation, and the world. *Studio Art 1B* requires a greater degree of proficiency and higher expectations from students and teachers. Students do not need to be proficient in drawing to enroll. Portfolio development may be required. Media components may be explored or utilized.

DRAMA/THEATER

THEATRE PERFORMANCE I

Course #: EN297

Grade(s): 9-12

Length: 1 Semester

Credit: .5

Prerequisite: None

This is a performance-based class designed to introduce students to the use of performance to express Theatre Literature. *Students should be aware that some colleges might not accept this course as an English course.*

THEATRE PERFORMANCE II

Course #: EN298

Grade(s): 10-12

Length: 1 Semester

Credit: .5

Prerequisite: *Theatre Performance I* or teacher recommendation

Theater Performance II is an advanced performance-based class. Students will be expected to perform on a much higher level and to study challenging theatrical materials in much more depth. *Students should be aware that some colleges might not accept this course as an English course. (A)*

MUSIC

SYMPHONIC BAND

Course #: MU037/038

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Audition

Fee: Required (uniform)

Symphonic Band is designed for the advanced band student. The class will spend time on scales, technical exercises, etudes, solo and ensemble literature, and appropriate level band literature. This group is a performance ensemble and represents its school at public functions, athletic activities, and evening performances. This is a progressive skills class, which may be repeated for credit. **(R)**

JAZZ BAND

Course #: MU042/043

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Audition or Teacher Recommendation

Fee: Required (uniform)

Jazz Band will give students an opportunity to experience different styles of music literature and the creative process unique to jazz. **(R)**

CHAMBER ORCHESTRA

Course #: MU031/032

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Audition or Teacher Recommendation

Fee: Required (uniform)

Chamber Orchestra is a performing group of string players and represents the school at public functions and concerts. Concert participation is required as outlined in the grading criteria. A limited amount of time is spent on study material. The bulk of the time is spent on concert orchestral literature. Recommended contact time for high school orchestra is at least four times each week during the school day. **(R)**

CONCERT CHOIR

Course #: MU016/017

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Audition or Teacher Recommendation

Fee: Required (uniform)

Concert Choir is a performing vocal ensemble and represents the school at public functions and concerts. A limited amount of time is spent on study of vocal technique. The majority of time is spent on concert literature. Concert participation is required as outlined in the course syllabus. **(R)**

TREBLE CHOIR

Course #: MU004/005

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Audition or Teacher Recommendation

Fee: Required (uniform)

Treble Choir is a performing vocal ensemble and represents the school at public functions and concerts. The development of correct posture and technique is stressed and there are opportunities for ensemble singing as students become ready. Concert participation is required as outlined in the course syllabus. **(R)**

MEN'S ENSEMBLE

Course #: MU007/008

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Audition or Teacher Recommendation

Fee: Required (uniform)

Men's Ensemble is a performing vocal ensemble of tenor and bass voices that represents the school at public functions and concerts. A limited amount of time is spent on study of vocal technique. The majority of time is spent on concert literature. Concert participation is required as outlined in the syllabus. **(R)**

SHOW/JAZZ CHOIR

Course #: MU019

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Audition or Teacher Recommendation

Fee: Required (uniform)

Show/Jazz Choir is a performing vocal ensemble that gives students an opportunity to experience different styles of music literature and creative process unique to the show/jazz medium. Movement and dance are an integral part of this course. Students are required to be in another school music ensemble. Concert participation is required as outlined in the syllabus **(R)**

CHAMBER CHOIR

Course #: MU010/011

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Audition or Teacher Recommendation

Fee: Required (uniform)

Chamber Choir is a select group of advanced singers and represents the school at public functions and concerts. Students are required to be enrolled in another school music ensemble. Concert participation is required as outlined in the syllabus. Students will develop techniques of enhancement of vocal resonance, including special awareness, and projection of the voice. **(R)**

MIXED CHOIR**Course #: MU001/002****Grades: 9 - 12****Length: Two Semesters****Credit: 1****Prerequisite: None****Fee: Required (uniform)**

Mixed Choir offers instruction in vocal technique and is open to all students. The development of correct posture and technique is stressed and there are opportunities for ensemble singing as students become ready. Performance opportunities may be made available for various audiences as described in the course syllabus. **(R)**

BEGINNING GUITAR**Course #: MU070****Grades: 9 - 12****Length: One Semester****Credit: 0.5****Prerequisite: None****Fee: Required (supply: strings, picks, acoustical guitar, books)**

Beginning Guitar is designed for the students who wish to learn how to play the guitar. Students must supply their own strings, picks, acoustical guitar, and books. The course will spend time on scales, technical exercises, solo and ensemble literature, and appropriate level guitar ensemble literature.

PHOTO/VIDEO

PHOTOGRAPHY - BEGINNING 1A, 2B

Course #: AR053/054

Grades: 10-12

Length: 1 or 2 Semesters

Credit: .5 or 1

Prerequisite: None

Fee: \$50 fee required (additional \$50 deposit to use a school camera)

Beginning Photography covers the fundamental skills, knowledge, attitudes, and techniques necessary to begin understanding the photographic process. Students learn the basic functions of a manual SLR 35-mm camera, how to process black and white film, and print film negatives and positives. Students will learn design elements and principles of art and begin to apply them to their work. Students learn to make critical judgments about their own art and the art of others. Students are exposed to the historical and contemporary role of photography throughout the world and are encouraged to relate the beauty and meaning of photographic art to their lives. Extensive out-of-class work is required to be successful in photography. Portfolio development may be required.

Beginning Photography 2B requires a greater degree of proficiency and higher expectations from students and teacher. *Beginning Photography 1A* must be successfully completed before enrolling in *2B*.

A safety test must be passed before students are allowed to use potentially harmful tools, chemicals or materials.

HEALTH & PHYSICAL EDUCATION COURSES

HEALTH

1. *The Health Curriculum is currently being revised and will be up for adoption by the Board of Education in the spring of 2016. The final document will be posted on the district's website once available. www.k12northstar.org/Page/2931*

The Physical Education Curriculum is currently being revised and will be up for adoption by the Board of Education in the spring of 2016. The final document will be posted on the district's website once available. www.k12northstar.org/Page/2934

GRADUATION REQUIREMENT:

.5 credit (1 semester)

HEALTH

Course #: HL001

Grade: 9-12

Length: 1 Semester

Credit: .5

Prerequisite: None

This course 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: Community Health, Physical Health, Disease Prevention and Control, Relationships, Mental Health, Personal and Consumer Health, Substance Use and Abuse, Human Physiology and Development, and Safety and First Aid.

PHYSICAL EDUCATION

GRADUATION REQUIREMENTS:

1.5 credits (3 semesters)

It is strongly recommended that students begin their high school fitness experience with *Fundamentals of Physical Education* as it is a prerequisite for many of the other physical education courses.

2 P.E. waivers (.25 credit each) = 1 semester (.5 credit) P.E.

One-quarter (.25) credit of 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 (22.5) credits (School Board Policy 984).

PE: FITNESS

Course #: PE051

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

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: INDIVIDUAL

Course #: PE052

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: No

Fee: None

This course is designed to develop student competence in individual activities. Emphasis will be placed on skill development, safety, rules, strategies, appropriate use and care of equipment, recreational enjoyment, conditioning, and application of fitness concepts. **(R –availability may be limited)**

PE: TEAM

Course #: PE053

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

This course is designed to develop student competence in team activities. Emphasis will be placed on skill development, safety, rules, strategies, working as a team, appropriate use and care of equipment, recreational enjoyment, conditioning, and application of fitness concepts. **(R –availability may be limited)**

PE: OUTDOOR PURSUITS

Course #: PE054

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

This course is designed to develop student competence in outdoor activities. Emphasis will be placed on skill and social development, safety, rules, strategies, appropriate use and care of equipment, recreational enjoyment, conditioning, and application of fitness concepts. **(R –availability may be limited)**

FUNDAMENTALS OF PHYSICAL EDUCATION

Course #: PE050

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

Fundamentals of Physical Education 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)**

MATHEMATICS

GRADUATION REQUIREMENT:

3 CREDITS (6 SEMESTERS)

Students must successfully complete Algebra I or Algebra I (Four Semesters) or a combination of these courses, to meet all objectives of Algebra I.

Option 1: *Algebra I*

Option 2: *Algebra I (Four Semesters)*

Option 3: *Algebra I (Semester One) AND Semesters 1.2 and 1.3 of Algebra I (Four Semesters)*

Option 4: *Fundamentals and 1.1 of Algebra I (Four Semesters) AND Algebra I (Semester Two)*

Algebra 1.2

Course #: MA266

Grades: 9-12

Length: One Semester

Prerequisite: Algebra 1.1 or Teacher Recommendation

Credit: 0.5 Algebra 1 Semester 1 (MA1)

Description: This course is part of the Algebra 1 course that is taken over the course of 2 years in order to help students go more in-depth with content and at a slower pace to ensure understanding.

Algebra 1.3

Course #: MA267

Grades: 9-12

Length: One Semester

Prerequisite: Algebra 1 semester 1 or Algebra 1.2

Credit: 0.5 Algebra 1 Semester 2 (MA1)

Description: This course is part of the Algebra 1 course that is taken over the course of 2 years in order to help students go more in-depth with content and at a slower pace to ensure understanding.

ALGEBRA II

Course #: MA204/205

Grades: 9 - 12

Length: Two Semesters

Credit: 1

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

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 (A/N)

STEM ALGEBRA II (HONORS)

Course #: MA278/279

Grades: 9 - 12

Length: Two Semesters

Credit: 1

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

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)

ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS

Course #: MA276/277

Grades: 11 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

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

Advanced Algebra with Financial Applications applies computational skills to real world consumer situations. The content includes: algebra, linear equations and inequalities, graphing, exponential growth, present and future value of money, interest (simple/compound), credit cards (credit scores, finance charges, deferred payments, etc.), mortgages (fees, points, expenses, interest, fixed/adjustable interest rates, balloon payments, etc.), payoff, complete tax forms using tax tables, insurance (options, fees, expenses, etc.), retirement plans (savings, IRA's, ROTH, annuities, etc.), and stocks (gains, losses, selling, preferred/common stock, bonds).

SUPPORT FOR ALGEBRA I SUCCESS

Course #: MA270/271

Grades: 9

Length: Two Semesters

Credit: 1

Prerequisite: Concurrently enrolled in *Algebra I* AND Teacher Recommendation

The purpose of *Support for Algebra I Success* (SAS1) is to reinforce concepts and skills taught in *Algebra I* for struggling students. Students must be enrolled in *Algebra I* concurrently. The course will provide the opportunity to identify and address individual student needs, focus on specific learning styles and provide greater depth and application of *Algebra I*. Emphasis is placed on increasing conceptual understanding and fluency. Alternative materials may be used to supplement adopted mathematics program and teachers will utilize a variety of research-based best practice instructional strategies for struggling learners. It is strongly recommended to have the same teacher for both courses.

GEOMETRY

Course #: MA221/222

Grades: 9 - 11

Length: Two Semesters

Credit: 1

Prerequisite: *Algebra I* OR Teacher Recommendation

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)

TRIGONOMETRY

Course #: MA283

Grades: 11 - 12

Length: One Semester

Credit: 0.5

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

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. (A/N)

ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS

Course #: MA276/277

Grades: 11 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

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

Advanced Algebra with Financial Applications applies computational skills to real world consumer situations. The content includes: algebra, linear equations and inequalities, graphing, exponential growth, present and future value of money, interest (simple/compound), credit cards (credit scores, finance charges, deferred payments, etc.), mortgages (fees, points, expenses, interest, fixed/adjustable interest rates, balloon payments, etc.), payoff, complete tax forms using tax tables, insurance (options, fees, expenses, etc.), retirement plans (savings, IRA's, ROTH, annuities, etc.), and stocks (gains, losses, selling, preferred/common stock, bonds). **(A)**

FUNCTIONS & ANALYSIS

Course #: MA284

Grades: 11 - 12

Length: One Semester

Credit: 0.5

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

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. **(A/N)**

ADVANCED PLACEMENT CALCULUS A/B

Course #: MA248/249/250

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Functions & Analysis AND Trigonometry OR Teacher Recommendation

Fee: AP exam approx. \$90

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. (AP exam is strongly encouraged.) **(A/N)**

STEM GEOMETRY (HONORS)

Course #: MA268/269

Grades: 9 - 11

Length: Two Semesters

Credit: 1

Prerequisite: *Algebra I* OR Teacher Recommendation

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.

SUPPORT FOR GEOMETRY SUCCESS

Course #: MA274/275

Grade: 10 - 11

Length: Two Semesters

Credit: 1

Prerequisite: Concurrently enrolled in *Geometry* AND Teacher Recommendation

The purpose of *Support for Geometry Success (SAG)* is to reinforce concepts and skills taught in *Geometry* for struggling students. Students must be enrolled in *Geometry* concurrently. The course will provide the opportunity to identify and address individual student needs, focus on specific learning styles and provide greater depth and application of *Geometry*. Emphasis is placed on increasing conceptual understanding and fluency. Alternative materials may be used to supplement adopted mathematics program and teachers will utilize a variety of research-based best practice instructional strategies for struggling learners. It is strongly recommended to have the same teacher for both courses.

ACCOUNTING 1A

Course #: CTEJ109

Grades: 10 - 12

Length: One Semester

Credit: 0.5 (Cross-credited with Career & Technical Education-Finance)

Prerequisite: None

Fee: Required (\$10 maximum)

Accounting 1A is designed to provide students with the fundamental skills needed to understand the basic accounting cycle for a sole proprietorship or partnership for a service business.

ADVANCED PLACEMENT CALCULUS A/B

Course #: MA248/249/250

Grades: 9 - 12

Length: Two Semesters

Credit: 1

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

Fee: AP exam approx. \$90 (*AP exam is strongly encouraged*)

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)

COMPUTER PROGRAMMING

Course #: MA232/233

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Algebra I

Computer Programming is a course designed to introduce basic programming concepts. Students will master concepts including integer arithmetic, basic sorts and searches and use of data structures. Concepts of object-oriented programming and algorithm design within the syntax of a higher-level language will be introduced. (A/N)

MATH IN HEALTH CARE

Course #: CTEK112

Grades: 9 - 12

Length: One Semester

Credit: 0.5 (Cross-credited with Career & Technical Education-Health Science)

Prerequisite: *Algebra I*

Fee: None

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

Course #: MA281/282

Grades: 11 - 12

Length: Two Semesters

Credit: 1

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

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 the real number system, fractions, measuring tools, unit conversions, ratios, proportions, percent, plane and solid geometry, systems of equations, quadratic formula, trigonometry, and vectors. All concepts are applied to industry situations with the goal and focus of preparing for industry entrance exams.

STATISTICAL ANALYSIS IN ATHLETICS

Course #: MA263

Grades: 11 - 12

Length: One Semester

Credit: 0.5

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

Statistical Analysis in Athletics will serve as an introduction to decision making in the complex environment of intercollegiate and professional athletics. Students will measure, calculate and analyze relevant data, as well as use mathematics to model and predict expected values. Students will develop and enhance their mathematical reasoning in non-conventional situations.

AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC)

AVIATION HISTORY

Course #: MS270/271

Grade(s): 9-12

Length: 2 Semesters

Credit: 1

Prerequisite: None

Fee: Required (maximum of \$20)

This course includes three major blocks of instruction:

- 1) **Aerospace Science** will acquaint students with the historical development of flight and the role of the military from ancient civilization to modern day. Historical emphasis is on civilian and military contributions to aviation; development, modernization, and transformation of the Air Force; and astronomical and space exploration. This is interspersed with concise overviews of the principles of flight including basic aeronautics, aircraft motion and control, flight power, and rockets. Students will read from texts, view videos, do hands-on activities, and workbook exercises.
- 2) **Leadership** addresses citizenship, character, and Air Force tradition. Cadets are introduced to the AFJROTC program and provided a basis for progression through the program while instilling elements of good citizenship. Sections address cadet and Air Force organization, uniforms, customs, courtesies, traditions, health and wellness, fitness, self-control, and citizenship.
- 3) **Wellness** is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.

SCIENCE OF FLIGHT

Course #: MS272/273

Grade(s): 9-12

Length: 2 Semesters

Credit: 1

Prerequisite: None

Fee: Required (maximum of \$20)

This course includes three major blocks of instruction:

- 1) **Aerospace Science** will acquaint students with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather and how the environment affects flight. Topics include forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. Physiology topics under human requirements of flight include the circulatory system, effects of acceleration and deceleration, and protective equipment.
- 2) **Leadership** focuses on communication skills and cadet corps activities. Information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches compliment the academic material. Cadet corps activities include holding positions of increasing responsibility in planning and executing corps projects.
- 3) **Wellness** is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.

SPACE EXPLORATION

Course #: MS276/277

Grade(s): 9-12

Length: 2 Semesters

Credit: 1

Prerequisite: None

Fee: Required (maximum of \$20)

This course includes three major blocks of instruction:

1) **Aerospace Science** is designed to examine the Earth, our moon, and planets; the latest advances in space technology; and continuing challenges of space and manned space flight. Issues critical to upper atmospheric travel such as orbits and trajectories, unmanned satellites, space probes, and guidance and control systems are explained. The manned space flight section covers major milestones in the endeavor to land on the moon and to safely orbit humans and crafts in space for temporary and prolonged periods. The development of space stations, the space shuttle and its future, and international laws regarding space travel will be covered.

2) **Leadership** will help students decide which path to take after high school. Information is provided on how to apply for college, vocational, or technical school admission. Information on how to begin the job search is available to students who decide not to continue in an academic setting. Financial topics include planning, saving, investing, spending wisely, and avoiding credit traps. Real life issues such as understanding contracts, leases, wills, warranties, legal notices, and personal bills is addressed. Citizenship responsibilities will be covered such as registering to vote, jury duty, and draft registration. Other areas include apartment shopping; grocery shopping; preparing a résumé; interviewing skills; and careers with the military, federal government, or aerospace industry.

3) **Wellness** is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.

GLOBAL & CULTURAL STUDIES

Course #: MS274/275

Grade(s): 9-12

Length: 2 Semesters

Credit: 1

Prerequisite: None

Fee: Required (maximum of \$20)

This course includes three major blocks of instruction:

1) **Aerospace Science** is a multidisciplinary introduction to various regions of the world from a geographic, historical, and cultural perspective. Increased international awareness and insight into foreign affairs permits a more educated understanding of other cultures and an enhanced knowledge of U.S. interests and role in the world. Geopolitical issues such as terrorism, economics, politics, military issues, religion, environmental concerns, human rights, disease, over-population, literacy, migration of peoples, and other cultural issues will be examined. The regional areas included are Europe, the Middle East, South Asia, East Asia, Africa, and Latin America. Lessons include videos to provide a window to life and issues within the regions, and hands-on activities to engage the student. Readings will set the stage for each lesson, along with workbook exercises.

2) **Leadership** will help students decide which path to take after high school. Information is provided on how to apply for college, vocational, or technical school admission. Information on how to begin the job search is available to students who decide not to continue in an academic setting. Financial topics include planning, saving, investing, spending wisely, and avoiding credit traps. Real life issues such as understanding contracts, leases, wills, warranties, legal notices, and personal bills is addressed. Citizenship responsibilities will be covered such as registering to vote, jury duty, and draft registration. Other areas include apartment shopping; grocery shopping; preparing a résumé; interviewing skills; and careers with the military, federal government, or aerospace industry.

3) **Wellness** is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.

DRILL & CEREMONY

Course #: MS282/283

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Concurrently enrolled in one other AFJROTC course

Fee: Required (maximum of \$20)

This course includes two blocks of instruction:

- 1) **Drill and Ceremonies** introduces cadets to the purpose of drill and to the organization of the Air Force into elements, flights, squadrons, groups, and wings. Drill consists of movements by which the flight or squadron makes orderly transfers from one formation or place to another. Established standards (e.g., the 24-inch step, 100-120 steps-per-minute cadence, distance, interval) ensure that movements are executed with order and precision. Cadets learn to execute these movements and adapt their own movements to the group exactly as described so the formation moves together on command. Cadets learn that ceremonies, an extension of drill activities, are special, formal group activities to honor distinguished persons or recognize special events while demonstrating the proficiency and training state of the troops. Precision marching, prompt command response, and teamwork developed on the drill field determine the appearance and performance of the group in ceremonies.
- 2) **Wellness** is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.(R)

MANAGEMENT CADET CORPS

Course #: MS280/281

Grades: 10 - 12

Length: Two Semesters

Credit: 1

Prerequisite: None

Fee: Required (\$20 maximum)

Management Cadet Corps includes three major blocks of instruction:

- 1) Aerospace Science is a management course in which cadets manage the entire corps. This hands-on experience affords cadets the opportunity to practice the theories of previous leadership courses. All planning, organizing, coordinating, directing, controlling, and decision-making will be done by cadets as they practice their communication, decision-making, personal interaction, managerial, and organizational skills.
- 2) Leadership considers four building blocks from both military and civilian perspectives: management techniques, management decisions, management functions, and managing self and others. Emphasis is placed on the student seeing him/herself as a manager and understanding the challenges of effective operations management.
- 3) Wellness is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.

SURVIVAL

(Pilot: BEHS/NPHS)

Course #: MS286P/287P

Grades: 9 - 12

Length: Two Semesters

Credit: 1

Prerequisite: None

Fee: Required (\$20 maximum)

Survival includes three major blocks of instruction:

- 1) Aerospace Science is designed to examine the Earth, our moon, and planets; the latest advances in space technology; and continuing challenges of space and manned space flight. Issues critical to upper atmospheric travel such as orbits and trajectories, unmanned satellites, space probes, and guidance and control systems are explained. The manned space flight section covers major milestones in the endeavor to land on the moon and to safely orbit

humans and crafts in space for temporary and prolonged periods. The development of space stations, the space shuttle and its future, and international laws regarding space travel will be covered.

2) Leadership will help students decide which path to take after high school. Information is provided on how to apply for college, vocational, or technical school admission. Information on how to begin the job search is available to students who decide not to continue in an academic setting. Financial topics include planning, saving, investing, spending wisely, and avoiding credit traps. Real life issues such as understanding contracts, leases, wills, warranties, legal notices, and personal bills are addressed. Citizenship responsibilities will be covered such as registering to vote, jury duty, and draft registration. Other areas include apartment shopping; grocery shopping; preparing a résumé; interviewing skills; and careers with the military, federal government, or aerospace industry.

3) Wellness is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.

AVIATION HONORS GROUND SCHOOL

Course #: MS284/285

Grades: 11 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Science of Flight

Fee: Required (\$20 maximum)

Aviation Honors Ground School includes three major blocks of instruction:

1) Aerospace Science prepares students for the Federal Aviation Administration (FAA) written examination as the foundation for receiving a private pilot's license. The Private Pilot Manual is the primary source for initial study and review. It contains explanations of the fundamental concepts pilots must know, organized to build upon previous topics. Subjects are often expanded through Discovery Insets, Human Element Insets, and FAA Question Insets. Review questions allow students to evaluate their understanding of the material introduced.

2) Leadership considers four building blocks from both military and civilian perspectives: management techniques, management decisions, management functions, and managing self and others. Emphasis is placed on the student seeing him/herself as a manager and understanding the challenges of effective operations management.

3) Wellness is a 36-week program comprised of 19 exercises aimed at developing all muscle groups and providing anaerobic and aerobic intensity through the use of body weight and common objects.

SCIENCE

GRADUATION REQUIREMENTS:

1 credit biological science

1 credit physical science

1 additional science credit

3 science credits (6 semesters)

BIOLOGY

Course #: SC003/004

Grades: 10 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Earth & Space Science or Teacher Recommendation

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)

GEOLOGY

Course #: SC083

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: One semester of Chemistry, Chem Tech, or Physical Science

Geology is a one-semester course designed to provide students with a better understanding of geology; provides an introduction to current events related to geology, and explore the multiple career pathways in the field of geology. Over the course students will discuss careers, employment, and current issues related to geology. Geology teaches fundamental science techniques and concepts through an exploration of the world around us. Physical concepts such as density and heat transfer will be explored through and in-depth study of rocks, geological formations, minerals, volcanoes, earthquakes, aquifers, groundwater pollutants, glaciers, petroleum and natural gas, metals, and mining. (A/N)

PALEONTOLOGY

Course #: SC084

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Biology and Chemistry or Chem Tech (may be concurrently enrolled)

Paleontology is a one-semester course that is designed to provide students an opportunity to further investigate and describe the temporal and spatial changes in Earth's flora and fauna within the context of geological processes, stratigraphy, and evolution. Another goal of the course is to demonstrate the interdependence of scientific disciplines in any investigation of large-scale patterns and events in the natural world. Consequently, the study of paleontology requires a working knowledge of more than one discipline. The course will be reading intensive with advanced articles on the subject of paleontology. (A/N)

ADVANCED PLACEMENT BIOLOGY**Course #: SC007/008****Grades: 11 - 12****Length: Two Semesters****Credit: 1****Prerequisite: Biology and Chemistry or Teacher Recommendation****Fee: AP exam approx. \$90**

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes – energy and communication, genetics, principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about living organisms and biological systems. The content of the curriculum is based on the content of the AP examination. Students are encouraged to take the AP exam. (AP Exam is strongly encouraged) (A/N)

EARTH & SPACE SCIENCE**Course #: SC060/061****Grades: 9 - 10****Length: Two Semesters****Credit: 1****Prerequisite: None**

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)

PHYSICAL SCIENCE**Course #: SC009/010****Grades: 9 - 12****Length: Two Semesters****Credit: 1****Prerequisite: None**

Physical Science provides an introduction to the core concepts of physics and chemistry. Laboratory work is an integral part of the inquiry-based learning process, helping students develop an understanding of the concepts as well as the process of science. The first semester provides an introduction to the core concepts of chemistry (matter and its interactions) with little emphasis on mathematics. The second semester includes an exploration of mechanics (motion, forces, energy), in addition to the development of important process skills. (A/N)

ALASKA ZOOLOGY: MAMMALS

Course #: SC050

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Biology

Alaska Zoology: Mammals is a one-semester course that explores the major Alaskan mammal groups. The general anatomy, physiology, and behavioral patterns of the major Alaskan mammal group are discussed. The course will also include game laws/regulations, and environmental issues including conservation. (A/N)

ALASKA ZOOLOGY: FISH & BIRDS

Course #: SC051

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Biology

Alaska Zoology: Fish and Birds is a one-semester course that explores the major Alaskan fish and bird groups. The general anatomy, physiology, and behavioral patterns of the major fish and bird groups found in Alaska are discussed. The course also includes game laws/regulations and environmental issues including conservation. (A/N)

PHYSICS

Course #: SC031/032

Grades: 10 - 12

Length: Two Semesters

Credit: 1

Prerequisite: Algebra II and Geometry or Teacher Recommendation

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 an 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, momentum). The second semester includes an in-depth exploration of thermal energy, electricity and magnetism, and wave applications in technology. (A/N)

FORENSIC SCIENCE

Course #: SC011

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Biology and Chemistry

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)

FORENSIC SCIENCE, ADVANCED

Course #: SC013

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Forensic Science

Advanced Forensic Science is intended for the more serious forensic science student. Students will build upon their forensic knowledge by investigating 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)

HUMAN ANATOMY & PHYSIOLOGY

Course #: SC005

Grades: 11 - 12

Length: One Semester

Credit: 0.5

(Cross-credited with Career & Technical Education-Health Science)

Prerequisite: Biology

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)

MARINE BIOLOGY

Course #: SC042

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Biology

Marine Biology explores the adaptation 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 people, local economies, food production, and career possibilities. (A/N)

NATURAL RESOURCES: BIOLOGY A/B

Course #: SC085/086

Grades: 9 - 12

Length: Two Semesters

Credit: 1

(Cross-credited with Career & Technical Education-Agriculture, Food, & Natural Resources)

Prerequisite: None

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 sciences as they relate to agriculture and food science in Alaska. Second semester will focus on land management practices of 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. **(A)**

NATURAL RESOURCES: PHYSICAL SCIENCE A/B**Course #: SC087/088****Grades: 9 - 12****Length: Two Semesters****Credit: 1****(Cross-credited with Career & Technical Education-Agriculture, Food, & Natural Resources)****Prerequisite: None**

Natural Resource: Physical Science 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 Earth's chemical processes and human impact on our solid Earth and the atmosphere. Second semester will focus on the physics of energy and application to energy sources in Alaska. Throughout the course, stress will be placed on safety, scientific vocabulary, scientific inquiry, experimentation and investigation, and validating and supporting evidence. Technical writing skills will be introduced and practiced. **(A)**

SOCIAL STUDIES

GRADUATION REQUIREMENTS:

- 1 credit - World Studies (2 semesters)
- 1 credit - American Studies (2 semesters)
- .5 credit - Contemporary Government Studies
- .5 credit - Contemporary Economics Studies
- .5 credit - Alaska Studies
- 3.5 credits (7 semesters)

World Studies Course Offerings

WORLD HISTORY 1

Course #: SS001

Grades: 9-10

Length: 1 Semester

Credit: .5 (fulfills World Studies requirement)

Prerequisite: None

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 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

Course #: SS002

Grades: 9-10

Length: 1 Semester

Credit: .5 (fulfills World Studies requirement)

Prerequisite: None

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 true global society in the 21st century. (A/N)

WORLD HISTORY HONORS 1 & 2

Course #: SS007/008

Grade: 9-10

Length: 1 or 2 Semesters

Credit: .5 or 1 (fulfills World Studies requirement)

Prerequisite:

9th Grade: Concurrently enrolled in *English 9 Honors* or teacher recommendation

10th Grade: Teacher recommendation

This course is designed for students who are reading and writing above grade level, capable of in-depth analysis, and motivated to take this challenging course. Studies in this course will focus on greater depth of knowledge/taxonomy based upon the stated literacy standards for Social Studies already outlined in the World History curriculum: Chronological Thinking, Historical Comprehension, Historical Analysis and Interpretation, Historical Issues-Analysis and Decision-making. (A/N)

American Studies Course Offerings

RECENT U.S. HISTORY 1

Course #: SS004

Grade: 11

Length: 1 Semester

Credit: .5 (fulfills American Studies requirement)

Prerequisite: None

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 1930s. 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)

RECENT U.S. HISTORY 2

Course #: SS005

Grade: 11

Length: 1 Semester

Credit: .5 (fulfills American Studies requirement)

Prerequisite: None

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)

ADVANCED PLACEMENT (AP) UNITED STATES HISTORY

Course #: SS016/017

Grade: 11

Length: 2 Semesters

Credit: 1 (fulfills American Studies requirement)

Prerequisite: *English 10 Honors* or teacher recommendation

Fee: AP exam approx. \$90

AP exam is strongly encouraged

This course is designed for students capable of introductory college-level work, follows the description put forward by the College Board, and prepares students to take the advanced placement examination. Through extensive experience with document-based and free-response essay writing, students will move beyond the basic skills of historical chronology and comprehension to develop historical analysis and interpretation skills, research capabilities, and issues-analysis and decision-making skills. A summer reading list or assignment may be required prior to the course. The course follows the advanced placement course description and uses appropriate materials as set forth by the College Board. (A/N)

Alaska Studies Course Offerings

ALASKA STUDIES

Course #: SS029

Grades: 9-12

Length: 1 Semester

Credit: .5 (fulfills Alaska Studies requirement)

Prerequisite: None

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 Course Offerings

AMERICAN GOVERNMENT

Course #: SS023

Grade: 12

Length: 1 Semester

Credit: .5 (fulfills Contemporary Government Studies requirement)

Prerequisite: None

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

ADVANCED PLACEMENT (AP) U.S. GOVERNMENT & POLITICS

Course #: SS020

Grade: 12

Length: 1 Semester

Credit: .5 (fulfills Contemporary Government Studies requirement)

Prerequisite: None

Fee: AP exam approx. \$90

AP Exam is strongly encouraged

This course is designed for students capable of college-level work, follows the description put forward by the College Board and prepares students to take the Advanced Placement examination. In *Advanced Placement (AP) U.S. Government & Politics*, students become knowledgeable about the political structure and function of the government, U.S. political process, issues confronting Americans and the responsibilities of being active participants in a democratic republic. A summer reading list or assignment may be required prior to the course. The class follows the advanced placement course description and uses appropriate materials as set forth by the College Board. (A/N)

Economic Studies Course Offerings

GENERAL ECONOMICS

Course #: SS026

Grade: 12

Length: 1 Semester

Credit: .5 (fulfills Contemporary Economics Studies requirement)

Prerequisite: None

General Economics analyzes 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)

PRINCIPLES OF ECONOMICS

Course #: SS060

Grade: 12

Length: 1 Semester

Credit: .5 (fulfills Contemporary Economics Studies requirement)

Prerequisite: Placement based on test scores and/or teacher recommendation

Principles of Economics emphasizes an economic way of seeing the world and addresses the same economic concepts as *General Economics*, but is designed for students who have a demonstrated need for additional support in reading and/or mathematics. The course provides students, who would find processing theory-based instruction difficult, a more hands-on approach to understanding core economic concepts. **(A)**

PSYCHOLOGY

Course #: SS041

Grades: 10-12

Length: 1 Semester

Credit: .5

Prerequisite: None

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)**

SOCIAL STUDIES ELECTIVES

COMPARATIVE RELIGIONS

Course #: SS035

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

(may be used as alternative for World History 1 to meet World History Study requirement.)

Comparative Religions compares and studies the major religions existing in the world today. Some study is directed to the world today, while other study is directed to the historical development of each religion. The major emphasis is on the economic, political, and social influences of these religions on the modern world. Basic areas of study are Buddhism, Christianity, Hinduism, Islam, and Judaism. **(A/N)**

WOMEN'S HISTORY

Course #: SS054

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Women's History introduces major historical issues directly related to women. The course includes a history of the women's movement from the gradual entry of women into the workforce and the rise of feminism to the fight for equal opportunity in the workplace. It examines the experiences of women and analyzes major judicial and legislative decisions that have shaped women's rights. Students address the social, economic, and political status of American women, and the progress and setbacks of women during the past centuries, as well as look ahead to the challenges of the future. **(A/N)**

DIVERSITY IN AMERICA

Course #: SS038

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Diversity in America is a study of the history of ethnic groups in America. Students examine the contributions of ethnic groups, past and present, to American culture. The course provides an in-depth study of significant social, economic, political, and/or cultural achievements of ethnic groups in America. (A/N)

PSYCHOLOGY

Course #: SS041

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

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)

ADVANCED PLACEMENT MACROECONOMICS

Course #: SS046

Grade: 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: AP exam approx. \$90

AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. (AP Exam is strongly encouraged.) (A/N)

ADVANCED PLACEMENT MICROECONOMICS

Course #: SS047

Grade: 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: AP exam approx. \$90

AP Microeconomics is an introductory college-level course that focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students' familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. (AP Exam is strongly encouraged.) (A/N)

CAREER AND TECHNICAL EDUCATION

BUSINESS, MANAGEMENT & ADMINISTRATION

COMPUTER APPLICATIONS

Course #: CTEJ105

Grades: 9-12

Length: 1 Semester

Credit: .5

Prerequisite: None

Fee: Required (maximum of \$10)

Computer Applications provides students the opportunity to learn one or more computer applications. Students will have the opportunity to study Microsoft applications, take a practice test and then take the test required to become a "Microsoft Certified Application Specialist" in MS Office applications: Word, Excel and/or PowerPoint.

FINANCE

ACCOUNTING 1A

Course #: CTEJ109

Grade(s): 9-12

Length: 1 Semester

Credit: .5 elective

Prerequisite: None

Fee: Required (maximum of \$10.00)

* Cross-credited with Mathematics

Accounting 1A is designed to provide students with the fundamental skills needed to understand the basic accounting cycle for a sole proprietorship or partnership for a service business.

ACCOUNTING 1B

Course #: CTEJ1091

Grade(s): 9-12

Length: 1 Semester

Credit: .5 elective

Prerequisite: *Accounting 1A*

Fee: Required (maximum of \$10.00)

Accounting 1B is designed to provide students with the fundamental skills needed to understand the basic accounting cycle for a merchandising business.

ARTS, AV TECHNOLOGY & COMMUNICATIONS

GRAPHIC DESIGN & MULTIMEDIA

Course #: CTEJ107

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: Required (\$10 maximum)

Graphic Design & 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 presentations, videos or websites. The course will also include a study of the relevant theories involved in modern graphic design.

VIDEO PRODUCTION 1A

Course #: CTEM101

Grade(s): 9-12

Length: 1 Semester

Credit: .5

Prerequisite: None

Fee: Required (maximum of \$25.00 + deposit for use of district camera)

Video Production 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

Course #: CTEM102

Grade(s): 9-12

Length: 1 Semester

Credit: .5

Prerequisite: *Video Production 1A*

Fee: Required (maximum of \$25.00 + deposit for use of district camera)

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.

DIGITAL CINEMA 1A

Course #: CTEM103

Grade(s): 10-12

Length: 1 Semester

Credit: .5

Prerequisite: *Video Production 1A & 1B*

Fee: Required (maximum of \$25.00 + deposit for use of district camera)

This course builds on skills mastered in *Video Productions 1A* and *1B* with a focus on the production of videos for public viewing (ex. the video yearbook, short movies, etc.). Students will receive instruction on advanced camera techniques, advanced editing software, and scriptwriting. Self-motivation and good time management skills are a must since much of the work is independent in nature. Out-of-class work is required for some projects.

DIGITAL CINEMA 1B

Course #: CTEM104

Grade(s): 10-12

Length: 1 Semester

Credit: .5

Prerequisite: *Digital Cinema 1A*

Fee: Required (maximum of \$25.00 + deposit for use of district camera)

This course builds on skills mastered in *Video Production 1A* and *1B* with a focus on the production of videos for

public viewing (e.g. the graduation video, commercials, instructional videos, etc.). Students will receive instruction on interviewing skills, fieldwork, and marketing techniques. Career exploration and awareness will be emphasized. Self-motivation and good time management skills are a must since much of the work is independent in nature. Out-of-class work is required for some projects.

YEARBOOK PUBLICATIONS A/B

Course #: CTEJX07/08

Grades: 10 - 12 (or Teacher Recommendation)

Length: Two Semesters

Credit: 1

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

Fee: None

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)

Hospitality & Tourism

CULINARY ARTS 1A

Course #: CTEI103

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

Culinary Arts 1A is designed for students who are interested in learning how to cook. The course will include the study of simple food preparation techniques in a professional environment (e.g., baking, roasting, sautéing, stir-fry, pastries, salads). Students will learn safe and sanitary food-handling practices, materials organization, workplace safety, food substitutions, conversions, and measuring. Students learn the use of culinary equipment in the workplace environment. Nutrition is taught as healthy food habits are aligned with lab assignments.

CULINARY ARTS 1B

Course #: CTEI104

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Culinary Arts 1A

Fee: None

Culinary Arts 1B is designed for students who are interested in expanding basic cooking skills learned in *Culinary Arts 1A*. The course is offered at a higher level with a vision for food preparation in the industry. An emphasis is placed on meal planning, restaurant management, and service. Students learn skills for stocks, chicken fabrication, specialty desserts and pastries, breads, garnishing and plating techniques, fish, poultry and meat, and international and regional cuisine. Students continue to practice visual organization, industry-based food safety practices,

workplace safety, and sustainability. Students are given opportunities for personal exploration in hospitality, food management, and production.

BAKING, BREADS & PASTRIES

Course #: CTEI110

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Culinary Arts 1A/1B

Fee: None

In *Baking, Breads, & Pastries*, students go further into baking concepts than the beginning classes of ProStart. The science of baking is covered in detail and students will also learn the core skills required to craft creative adaptations of traditional recipes. Students are required to obtain the A/P2 certification.

PROSTART 1A

Course #: CTEI106

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Culinary Arts 1A/1B or Teacher Recommendation

Fee: None

In *ProStart 1A*, students will learn the fundamental skills needed to begin a career in the food service industry. This course is an introduction to the foodservice industry, so students will explore topics such as an overview of what is in the foodservice industry, workplace safety, kitchen equipment and soups.

PROSTART 1B

Course #: CTEI109

Grades: 10 - 12

Length: One Semester

Credit: 0.5

Prerequisite: ProStart 1A

Fee: None

In *ProStart 1B*, students will continue to learn the fundamental skills needed to begin a career in the food service industry. This course continues an introduction to the foodservice industry so students will explore topics such as an overview of what is in the foodservice industry, workplace safety, kitchen equipment and basic food preparation techniques.

PROSTART 2A

Course #: CTEI107

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: ProStart 1A/1B

Fee: None

In *ProStart 2A*, students will continue to learn and practice the fundamental skills needed to begin a career in the food service industry. This course continues an introduction to the foodservice industry and will explore topics such

as purchasing and inventory, food preparation (e.g., meat, poultry, seafood, stocks sauces). Additionally, students will learn about the business of food service including accounting, tourism, retail, and communication.

PROSTART 2B

Course #: CTEI108

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: ProStart 2A

Fee: None

In ProStart 2B, students continue to learn the fundamental skills needed to begin a career in the food service industry. This course further explores the foodservice industry (e.g., restaurants, tourism, global cuisine, public/private sector employment opportunities). Food preparation techniques and skills are mastered (e.g., pastries, baked goods, breads, sauces, menu planning). Students will also practice food management and marketing (e.g., communication, international relations, costing, advertisement, equipment, inventory control, accounting practices, sustainability).

Science, Technology, Engineering & Mathematics

INTRODUCTION TO ENGINEERING & ROBOTICS A

Course #: CTEO305

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

Introduction to Engineering & Robotics A and B emphasizes hands-on learning. Through the building of various projects, students will learn how to safely use certain prototyping and workshop tools, and how to safely use certain prototyping and workshop tools, and how to apply basic engineering principles. The course introduces four main aspects of engineering: Drawing and Design using three-dimensional drawing and design software; Mechanisms and Linkages along with basic mechanical design principles; Fundamentals of Electronics and circuit construction; and Computer Programming and control of electromechanical devices. This course will include many individual and group projects. There will be a major group robotic project such as the FIRST Tech Challenge Robotics Competition and a major individual robotic project using a microcontroller such as a BASIC stamp.

HEALTH SCIENCES

INTRODUCTION TO HEALTHCARE OCCUPATIONS A

Course #: CTEK128

Grade: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: Required (\$25 maximum)

Introduction 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.

MEDICAL TERMINOLOGY 1A

Course #: CTEK102

Grades: 10 - 12

Length: One Semester

Credit: 0.5

(Cross-credited with Science)

Prerequisite: Introduction to Healthcare Occupations A

Fee: None

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.

NUTRITION IN HEALTHCARE

Course #: CTEK1044

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Introduction to Healthcare Occupations A

Fee: None

Nutrition in Healthcare is a course designed to give students a strong background in basic nutrition. The objective is to learn how foods affect every aspect of human health. Students will explore nutrition-related health conditions. Students will also scientifically analyze their personal diet, giving them the tools to take control of their personal diet and health as well as apply those concepts to the care of others.

TRANSPORTATION, DISTRIBUTION & LOGISTICS

SMALL ENGINES 1A

Course #: CTEE305

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: Required (\$25 maximum)

Small Engines 1A covers the principles of small gasoline and diesel engines, safe working habits, employability skills and environmental concerns related to internal combustion.

BASIC AUTOMOTIVE TECHNOLOGY

Course #: CTEE101

Grades: 11 - 12

Length: One Semester

Credit: 0.5

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

Fee: Required (\$25 maximum)

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.

ADVANCED AUTOMOTIVE TECHNOLOGY

Course #: CTEE100

Grades: 11-12

Length: 2 Semester (2 period class)

Credit: 1

Prerequisite: *Basic Automotive Technology* or teacher recommendation

Fee: Required (maximum of \$25)

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.

ARCHITECTURE & CONSTRUCTION

DRAFTING 1A

Course #: CTEC101

Grade(s): 9-12

Length: 1 Semester

Credit: .5

Prerequisite: None

Fee: Required (maximum of \$15.00)

Drafting 1A will introduce students to basics skills of drafting, including lettering, layout, and use of drawing tools including computer assisted drafting (CAD). The students will focus on illustrating 2-dimensional working drawings as well as 3-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**Course #: CTEC102****Grade(s): 9-12****Length: 1 Semester****Credit: .5****Prerequisite: *Drafting 1A*****Fee: Required (maximum of \$15)**

Drafting 1B will allow students to gain experience in illustrating advanced pictorial drawings such as isometric, oblique pictorials auxiliary views, and perspective drawings. The students will also learn basic architectural drafting skills and use the skills to draw multiple views of a residential home. The students will also complete an advanced introduction unit in *Computer Assisted Drafting*.

COMPUTER-AIDED DRAFTING (CAD) 1A**Course #: CTEC103****Grades: 10 - 12****Length: One Semester****Credit: 0.5****Prerequisite: Drafting 1A/1B****Fee: Required (\$15 maximum)**

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**Course #: CTEC104****Grades: 10 - 12****Length: One Semester****Credit: 0.5****Prerequisite: Computer Aided Drafting 1A****Fee: Required (\$15 maximum)**

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**Course #: CTEC105****Grades: 9 - 12****Length: One Semester****Credit: 0.5****Prerequisite: Drafting 1A and Drafting 1B****Fee: Required (\$15 maximum)**

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**Course #: CTEC106**

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Architectural Drafting 1A

Fee: Required (\$15 maximum)

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.

TOOLS OF TECHNOLOGY & TRADES

Course #: CTEC107

Grade: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

Tools of Technology & Trades is designed to introduce students to the common hand and power tools used throughout the world of technology and building trades. This is a hands-on course which will equip students with the knowledge and confidence necessary for building projects using wood, metals and electronics. Individual and group projects will hone craft skills and help prepare students for future challenges in the construction industry. Students will explore the strengths and weaknesses of various joinery and fastening systems, determining which choices to make based upon sound engineering principles. Students will learn the components of a project-plan, determine materials and figure out cost estimates. This course may serve as a prerequisite to *Advanced Woods* and count as an elective credit toward an endorsement with Lathrop High School's Engineering Academy.

METALWORKING 1A/1B

Course #: CTEC4011/4022

Grades: 9 - 12

Length: One or Two Semesters

Credit: 0.5 or 1

Prerequisite: None

Fee: Required (\$25 maximum)

Metalworking 1A/1B is an introductory course that will cover the history of metals and its importance to mankind, basic metalworking techniques, and employment opportunities in the metalworking industry. Important aspects of the metalworking industry are studied from a career exploration perspective. The periodic table will be studied from a metals standpoint. Studies will include the safe use of hand and machine tools, metals (i.e., production, types, identification usage), reading and interpreting drawings, and accurate project layout. Students will fabricate small projects using cutting, bending, and assembly tools and processes. Sheet metal tools and techniques will also be covered. Students will develop patterns, layout sheet metal projects, and cut, bend, and assemble them. *Metalworking 1B* continues with sheet metal fabrication and introduces soldering, Shielded Metal Arc Welding (Stick), and oxy-fuel cutting.

WELDING 1A

Course #: CTEC501

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: Required (\$25 maximum)

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

Course #: CTEC5022

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: Welding 1A

Fee: Required (\$25 maximum)

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.

INTRODUCTORY & CAPSTONE COURSES

CAREERS & EMPLOYABILITY

Course #: CTEJX06

Grades: 9 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fee: None

Careers & Employability is a college and career ready foundation course that leads students through a process of self-knowledge and career exploration. Students will gain knowledge, skills, attitudes and behaviors necessary for succeeding in the world of work. The student explores “real life” work through observation and/or active participation. Students will appreciate the relationship between education and becoming gainfully employed through self-discovery, goal setting and career planning. *Careers & Employability* is the introductory course for all career pathways.

WORK-BASED LEARNING 1

Course #: CTEX108

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Fees: None

Work Based Learning 1 (WBL1) is designed to prepare students for work experiences through instruction and activities that help students develop attitudes, knowledge, skills, and habits to be a successful employee in a variety of settings. WBL1 experiences allow students to apply classroom theories to practical problems, to explore career options, and pursue personal and professional goals. Introductory WBL1 activities may include industry tours and classroom speakers. Students may be concurrently or subsequently enrolled in some form of capstone experience, such as apprenticeships, internships, service learning, clinical, and practicum experiences for credit.

WORK-BASED LEARNING 2

Course #: CTEX109

Grades: 11 - 12

Length: One Semester

Credit: 0.5

Prerequisite: None

Work-Based Learning 2 (WBL2) is a continuation of building skills developed and introduced in WBL1. Through instruction and activities to prepare students for work experiences, students continue their development of attitudes, knowledge, skills, and habits to be a successful employee in a variety of settings. *WBL2* experiences allow students to apply classroom theories to practical problems, to explore career options, and necessary training/skills to pursue personal and professional goals. Advanced activities may include job shadows and industry-led project-based learning. Students may be concurrently or subsequently enrolled in some form of capstone experience, such as apprenticeships, internships, service, clinical and/or practicum experiences for credit. **(R- one time only)**

WORLD LANGUAGES

SPANISH I

Course #: FL055/056

Grades: 9-12

Length: 2 Semesters

Credit: 1

Prerequisite: None

Fee: Required (maximum of \$20 + dictionary if required)

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

Course #: FL058/059

Grades: 9-12

Length: 2 Semesters

Credit: 1

Prerequisite: *Spanish I*

Fee: Required (maximum of \$20 + dictionary if required)

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)

MISCELLANEOUS

STUDY SKILLS & COMMUNICATION TECHNIQUES

Course #: MS020

Grade(s): 9-12

Length: 1 Semester

Credit: .5

Prerequisite: Failing academically (D's/F's) in two or more core academic areas

This course develops student study skills strategies, organizational skills strategies, communication skills, and compensatory strategies in a small group setting. The goal is for students to integrate skills learned into their core academic areas. **(R)**

SUCCESS SKILLS

Course #: MS030

Grade(s): 9-12

Length: 1 Semester

Credit: .5

Prerequisite: Teacher Recommendation

This course is designed for "at risk" students who have had difficulties attaining or maintaining academic success in one or more classes throughout the school year or during one semester. The students' primary difficulties are due to insufficient study skills, lack of assignment completion, and poor attendance. Other problems may include low motivation, low self-esteem, and inappropriate social skills and behavior. The major goal of this course is to teach the necessary skills that are needed in order for students to succeed in an academic setting. The curriculum and instruction is highly individualized, but small group and cooperative learning activities are also utilized. **(R)**

STUDENT OFFICE ASSISTANTS

Course #: CTEJX00

Grades: 11-12

Length: 1 Semester

Credit: .5 (Pass/Fail)

Prerequisite: 2.0 GPA or above, excellent conduct, good attendance, and Administration recommendation

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)**

OFFICE OCCUPATIONS TRAINING LAB

Course #: CTEJX01

Grades: 11-12

Length: 1 Semester

Credit: .5 (Graded)

Prerequisite: Student Office Assistants

This is a "hands-on" training course that will allow students to develop professional office skills. Students may be assigned to the administrative office or the counseling office. The students will be instructed and graded on their 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

Course #: CTEJX02

Grades: 11-12

Length: 1 Semester

Credit: .5 (Pass/Fail)

Prerequisite: 2.0 GPA or above, excellent conduct, good attendance, and teacher recommendation

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

Course #: CTEJX03

Grades: 11-12

Length: 1 Semester

Credit: .5 (Graded)

Prerequisite: 3.0 GPA, excellent conduct and attendance, successful completion of related content and curriculum, and teacher recommendation

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 communications skills will be emphasized. **(R – one time only)**

STUDENT TUTORING ASSISTANTS

Course #: CTEJX04

Grades: 11-12

Length: 1 Semester

Credit: .5 (Pass/Fail OR Graded)

Prerequisite: 3.0 GPA, excellent conduct and attendance, successful completion of related content and curriculum, and teacher recommendation

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 communications skills will be emphasized. A letter grade may be given at the discretion of the teacher. **(R – one time only)**

STUDENT LIBRARY ASSISTANTS

Course #: CTEJX05

Grades: 11-12

Length: 1 Semester

Credit: .5 (Graded)

Prerequisite: 2.0 GPA or above, excellent conduct, good attendance, and librarian’s recommendation

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)**

AHEAD Program

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.

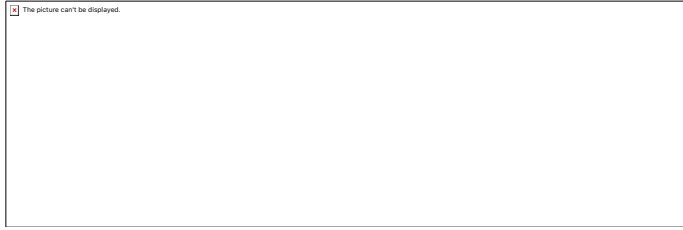
-*Admissions and Enrollment*: Admittance to UAF is based on an evaluation of GPA and coursework. A minimum high school grade point average of 2.50 is required. Students must take the ACT or SAT test prior to enrolling in UAF classes. In addition, applicants must have completed 75% of the high school 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.



The Fairbanks North Star Borough School District offers several exciting opportunities for students to learn new skills and gain hands-on experience in the construction trades while still in high school.

Quick Facts:

- Apply early! Enrollment for the Academies is limited to 12 students.
- Academies typically run three days per week.
- Students can earn high school credit and Tech Prep credits.
- Students can earn NCCER certification, which is recognized nationally in the construction fields.
- Contact your Counselor for information and assistance to complete your application for the Academies or go to www.k12northstar.org/departments/curriculum/cte/alaska-construction-academy.
- Did we mention to enroll early as class size is limited?

Construction Workshops

Construction Workshops are also being offered. These workshops are two to three days of intensive training and cover specific skillsets required in the construction industries. The Construction Workshops are offered during Parent-Teacher Conferences and student release days in order to provide additional opportunities for students to participate. All Construction Workshops take place at the new Fairbanks Pipeline Training Center and are open to all district high school students! Students need to register by completing the Construction Academy Student Application.

Quick Facts: Typical Workshops Offered

- Power Tools Use and Certification
- Forklift Operator & First Aid Certification (Driver's Permit/License Required)
- High School Construction Workshop
- Middle School Construction Awareness Workshop

STUDENTS MAY TAKE MORE THAN ONE CONSTRUCTION WORKSHOP IN ANY ORDER THEY CHOOSE!

Workshops are limited to 12 students.

Contact your counselor for information and assistance to complete your application for the workshops or go to www.k12northstar.org/departments/curriculum/cte/alaska-construction-academy.

IF YOU NEED FURTHER INFORMATION OR HAVE QUESTIONS PLEASE

CONTACT:

Daniel Domke
CTE Director
452-2000, ext. 11537
daniel.domke@k12northstar.org

or

Gwenetta Dunn-Johnson
CTE Program Secretary
452-2000, ext. 11538
gwenetta.dunn-johnson@k12northstar.org

Construction Academy
& Workshops are
funded by a grant from
the Alaska Dept. of
Labor and Workforce
Development

Equal Opportunity Employer/Program. Auxiliary aids and services are available upon request to individuals with disabilities. Times, locations and courses are subject to change.

(Revised: October 1, 2014)

(Revised: October 30, 2013)

UAF COMMUNITY AND TECHNICAL COLLEGE

TECH PREP PROGRAM

The Tech Prep program is a partnership between the UAF Community and Technical College and the Fairbanks North Star Borough School District allowing high school students to earn university credits toward a certificate and/or degree by completing career and technical education classes in their high school that have been approved for college credit by UAF. The classes available for credit vary from school to school, but in general, they are taken from the following areas: applied business; automotive; airframe and power plant; human services; computer information office systems; allied health; drafting; emergency medical services; and welding. Credits earned allow students to:

- Get a head start in a certificate and/or degree program or apprenticeship program.
- Transfer credits from UAF to another university or college.
- Apply technical skills for immediate entry-level employment after high school while also attending college.

General Information

Students enrolled in a high school course that qualifies as a Tech Prep course will receive information about the Tech Prep program along with a registration form.

Grades received in the high school course will be reflected on the student's

UAF transcript. Registration forms must be received by the second Monday in May in order for a student to receive Tech Prep credit. There is no limit to the number of UAF/TVC credits a student may receive Tech Prep. The cost of Tech Prep is \$25 per credit.

For more information contact your high school counselor; or

Laura Lee Potrikus,
UAF Community and Technical College Tech Prep Coordinator

Phone: (907) 455-2906

Email: lpotrikus@alaska.edu

Website: www.tvc.uaf.edu/techprep



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:

Ms. Elizabeth (Bett) Schaffhauser
Employment and Educational Opportunity Director
520 Fifth Avenue
4th Floor, Suite A, Room 410
Fairbanks, Alaska 99701
(907) 452-2000 ext. 11466
Fax (907) 452-3172
bett.schaffhauser@k12northstar.org

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