



## Nikola Tesla Educational Opportunity School

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## Nikola Tesla Educational Opportunity School

### Course Catalog

2017–2018



Respect me for who I am,  
Require me to do my best,  
Give me the help I need to achieve my  
goals.

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# Graduation Requirements 2021

## **GRADUATION REQUIREMENTS (APPLIED TO 2021 GRADUATES)**

Beginning with the 2017-2018 freshman class (scheduled to graduate in 2021), for a student to graduate from a Colorado Springs School District 11 (the District) high school, the following must be achieved:

### **A. Completion of an Individual Career and Academic Plan (ICAP).**

**Individual Career and Academic Plan (ICAP)** - a multi-year process that intentionally guides students and families in the exploration of career, academic and postsecondary opportunities (see 1 CCR 301-81, 2.00(2)).

Beginning with 9<sup>th</sup> grade in the fall of 2016 and continuing thereafter, all students will develop an ICAP. With the support of adults, students develop the awareness, knowledge, attitudes, and skills to create their own meaningful and powerful pathways to postsecondary and workforce readiness.

### **B. Successful demonstration of academic and career competencies aligned to the**

**adopted Colorado Academic Standards by earning the minimum number of credits for graduation as defined in this regulation for students graduating in 2021, and thereafter.**

The minimum number of credits for graduation from the District's high schools shall be 46. The

subjects for which credits must be earned through grade 12 are outlined below.

#### **Subject areas Credits**

<b>English</b> Language Arts Core required (English 1 through 8) .....	8
<b>Social Studies</b> (American History and Civil Government required; World History recommended).....	6
<b>Mathematics</b> (including 2 semester credits of Algebra I or equivalent) .....	6
<b>Science</b> (2 semester credits of Physical Science, 2 semester credits Biology, 2 credits any other designated science class) .....	6
<b>Physical Education</b> .....	3
<b>Health</b> .....	1
<b>Humanities</b> (English, music, fine arts and/or world language) .....	2
<b>Computer Education/Technology</b> .....	1
<b>Economics</b> .....	1
<b>Postsecondary Workforce Readiness</b> (this includes, but is not limited to, business education, industrial arts/vocational education, consumer and family studies, Career and Technical Education (CTE), Concurrent Enrollment (CE), Advancement Via Individual Determination (AVID), Junior Reserve Officer Training Corps (JROTC), and Career Pathways) .....	1
Required subjects .....	35
Electives .....	11
Minimum total for graduation .....	46

# Graduation Requirements 2017–2020

## CURRENT GRADUATION REQUIREMENTS (TRANSITIONAL FOR 2017 TO 2020 GRADUATES)

For students graduating from a Colorado Springs School District 11 (the District) high school in 2017, 2018, 2019 and 2020, the requirements to graduate include:

**A. Completion of an Individual Career and Academic Plan (ICAP):** a multi-year process that intentionally guides students and families in the exploration of career, academic and postsecondary opportunities (see 1 CCR 301-81, 2.00(2)).

Beginning with 9<sup>th</sup> grade in the fall of 2016 and continuing thereafter, all students will develop an ICAP. With the support of adults, students develop the awareness, knowledge, attitudes, and skills to create their own meaningful and powerful pathways to postsecondary and workforce readiness.

**B. The minimum number of semester credits for graduation from the District high schools shall be 46.** The subjects for which credits must be earned through grade 12 are outlined below:

<b>Subject areas Credits</b>	
<b>English</b> Language Arts Core required (English 1 through 8) .....	8
<b>Social Studies</b> (American History and Civil Government required; World History recommended) .....	6
<b>Mathematics</b> .....	6
<b>Science</b> .....	6
<b>Physical Education</b> .....	3
<b>Health</b> .....	1
<b>Humanities</b> (English, music, fine arts and/or world language) .....	2
<b>Computer Education/Technology</b> .....	1
<b>Economics</b> .....	1
<b>Practical Arts</b> (this includes, but is not limited to, business education, industrial arts/vocational education, consumer and family studies, Career and Technical Education (CTE), Concurrent Enrollment (CE), Advancement Via Individual Determination (AVID), Junior Reserve Officer Training Corps (JROTC), and Career Pathways) .....	1
Required subjects .....	35
Electives .....	11
Minimum total for graduation .....	46

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## Art

**Course Number:** AR.CERAM1

**Course Name:** Ceramics 1

**Prerequisite:** None

**Course Description:** Ceramics 1 is a course designed to offer students introductory experiences in hand-building and wheel-throwing techniques. Attention will be given to developing awareness of the aesthetic and utilitarian roles of clay as a design material. The elements and principles of design will be emphasized in planning and creating ceramic forms which utilize the techniques, processes, and materials of ceramics design. The cultural and appreciative aspects of art are incorporated into the course through various instructional resources and art production experiences. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Humanities or Elective)

**Course Number:** AR.DIGPHO1

**Course Name:** Digital Photography 1

**Prerequisite:** None

**Course Description:** Does your new digital camera scare you? Conquer your fears and take control of your images! Learn how digital cameras operate. This course will cover camera operations, fundamentals of lighting, proper composition, making exposures and using Adobe Photoshop. Begin with black and white images and work your way into color images. Students will explore the potentials of computers and software in developing their imagery and ideas. (10/07)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:**1.0 (Humanities or elective)

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## Other classes offered

**Course Number:** EN.YEARBK1

**Course Name:** Yearbook 1

**Prerequisite:** Teacher recommendation

**Course Description:** The yearbook staff produces the school yearbook which entails planning pages, drawing layouts, gathering information, writing copy, and composing pages for the sections of the book with the guidance of the instructor. Ordering, cropping, placing photographs, and selling ads are the duties of editors and staff. Experienced, dependable photographers are needed. Applicants for the editorial staff should be able to write effectively, to do neat work, and to meet deadlines. Interested students must get an application from instructor. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Humanities or Elective)

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## Art

**Course Number:** AR.DRAW1

**Course Name:** Frhand Drwng 1

**Prerequisite:** None

**Course Description:** Freehand Drawing 1 is an introductory course designed to offer students opportunities to create images from both observed and imaginary forms. The use of appropriate drawing tools and techniques will be emphasized to achieve the desired effects. Classroom activities will concentrate upon contour, gesture, mass and perspective drawings from life as well as the imagination. The cultural and appreciative aspects of art are incorporated into the course through various instructional resources and art production experiences. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Humanities or Elective)

**Course Number:** AR.GEN1

**Course Name:** General Art 1

**Prerequisite:** None

**Course Description:** General Art 1 is designed for the student who desires to sample a variety of art experiences. Each quarter, students will explore at least one of the elements of design: line, shape, color, texture, or space. Learning techniques and processes related to a particular medium such as ceramics or painting will be emphasized. That medium will be related to the particular element being investigated. Media used to create two-dimensional and three-dimensional work will include, but not be limited to, drawing, painting, printmaking, and sculpture. The cultural and appreciative aspects of art will be incorporated into the course through various instructional resources and art production experiences. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Humanities or Elective)

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## Art

**Course Number:** AR.PAINT1

**Course Name:** Painting 1

**Prerequisite:** Freehand Drawing 1 (or instructor's approval)

**Course Description:** Painting 1 explores various painting techniques, elements of composition, and color concepts. Materials used for painting representational, expressive or abstracted images include, but are not limited to, tempera, watercolor, acrylic, and oil. Fundamentals of composition, color, theory, and developmental skills will be emphasized. Art history will be incorporated into the course through aesthetics and criticism through varied instructional media and resources. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Humanities or Elective)

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## Other Classes Offered

**Course Number:** VE.VACE1

**Course Name:** Voc ACE 1

**Prerequisite:** Counselor and teacher recommendation

**Course Description:** This course is taken concurrently with the Voc ACE Work 1. The Alternative Cooperative Education (ACE) 1 Program is a one-trimester class designed to enhance employment related skills for secondary students. This course explores student vocational interests and education goals. It also teaches the necessary job skills to obtain employment such as phone skills, applications, resumes, cover letters, interviewing and various other units. Students are required to have a job and provide their own transportation.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 11-12 grade(s)

**Credit Per Trimester:** 3.0 (1.0 for class portion and 2.0 for work portion) (Practical Arts or Elective)

**Course Number:** VE.VACE2

**Course Name:** Voc ACE 2

**Prerequisite:** Counselor and teacher recommendation

**Course Description:** This course is taken concurrently with the Voc ACE Work 2. The Alternative Cooperative Education (ACE) 2 Program is a one-trimester class designed to enhance employment related skills for secondary students. This course covers paychecks, taxes, Social Security, employment goals, and various other units. It also teaches the necessary skills to keep a job. Students are required to have a job and provide their own transportation.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 11-12 grade(s)

**Credit Per Trimester:** 3.0 (1.0 for class portion and 2.0 for work portion) (Practical Arts or Elective)

## Other Classes Offered

**Course Number:** ME.TEENL2

**Course Name:** Teen Leadership 2

**Prerequisite:** None

**Course Description:** Teen Leadership™ is a class in which students develop leadership, professional, and business skills. They learn to foster a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility including social media's impact on image. Student will develop an understanding of Emotional Intelligence and the skills it measures, which include self-awareness, self-control, self-motivation, and social skills. Students also develop skills in public speaking and communication. They will have an understanding of the concept of principle-based decision-making and learn to make responsible financial decisions. In addition, students will develop an understanding of the effects of peer pressure, skills to counteract those effects, bullying prevention and defending skills, and will problem-solving skills. Throughout the class, students will employ various technologies to support and empower them to take their skills to the next level. Students will acquire an understanding of the principles of parenting, enabling them to become better family members and citizens. As members of a community, students also develop leadership skills practiced in the form of community service. They will also develop an understanding of the need for vision in goal-setting, both personally and professionally. Fall2016

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:**One (1) Elective

## English

**Course Number:** EN.ENG1

**Course Name:** English 1

**Prerequisite:** None

**Course Description:** English 1/2 prepares students to engage in an array of classic and contemporary works in text, video, audio, and other multimedia formats. Students develop the skills and knowledge to become critical readers and writers by analyzing key ideas and details, craft, and structure. Students develop their writing skills by examining various text types, structures, and purposes and by crafting arguments, explanatory/informational texts, and narratives. Students learn to produce and distribute quality writing using technology. Students conduct research, participate in a range of collaborative discussions, and integrate multiple sources of information. This course advances students' knowledge of the conventions of Standard English and strengthens vocabulary acquisition and use.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-9 grade(s)

**Credit Per Trimester:**1.0 (English)

**Course Number:** EN.ENG2

**Course Name:** English 2

**Prerequisite:** None

**Course Description:** English 1/2 prepares students to engage in an array of classic and contemporary works in text, video, audio, and other multimedia formats. Students develop the skills and knowledge to become critical readers and writers by analyzing key ideas and details, craft, and structure. Students develop their writing skills by examining various text types, structures, and purposes and by crafting arguments, explanatory/informational texts, and narratives. Students learn to produce and distribute quality writing using technology. Students conduct research, participate in a range of collaborative discussions, and integrate multiple sources of information. This course advances students' knowledge of the conventions of Standard English and strengthens vocabulary acquisition and use.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-10 grade(s)

**Credit Per English**

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## English

**Course Number:** EN.ENG3

**Course Name:** English 3

**Prerequisite:** Recommended English 1, 2 or Government and Literature 1, 2 or English 1, 2 Honors or Pre-IB English 1, 2 Honors

**Course Description:** English 3/4 prepares students to engage in an increasingly complex array of classic and contemporary literature and informational texts. Students expand the skills and knowledge of English 1/2 to become critical readers and writers by analyzing key ideas and details, craft, and structure. Students develop their writing skills by examining text types and purposes and writing more sophisticated arguments, explanatory/informational texts, and narratives. Students use technology to produce and distribute quality writing. Students conduct research, participate in a range of collaborative discussions, and integrate multiple sources of information. This course advances students' knowledge of the conventions of Standard English, strengthens vocabulary acquisition and use, and prepares students for real life communications.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Credit Per English**

**Course Number:** EN.ENG4

**Course Name:** English 4

**Prerequisite:** Recommended English 1, 2 or Government and Literature 1, 2 or English 1, 2 Honors or Pre-IB English 1, 2 Honors

**Course Description:** English 3/4 prepares students to engage in an increasingly complex array of classic and contemporary literature and informational texts. Students expand the skills and knowledge of English 1/2 to become critical readers and writers by analyzing key ideas and details, craft, and structure. Students develop their writing skills by examining text types and purposes and writing more sophisticated arguments, explanatory/informational texts, and narratives. Students use technology to produce and distribute quality writing. Students conduct research, participate in a range of collaborative discussions, and integrate multiple sources of information. This course advances students' knowledge of the conventions of Standard English, strengthens vocabulary acquisition and use, and prepares students for real life communications.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Credit Per English**

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## Other Classes Offered

**Course Number:** ME.TEENL1

**Course Name:** Teen Leadership 1

**Prerequisite:** None

**Course Description:** Teen Leadership™ is a class in which students develop leadership, professional, and business skills. They learn to foster a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility including social media's impact on image. Student will develop an understanding of Emotional Intelligence and the skills it measures, which include self-awareness, self-control, self-motivation, and social skills. Students also develop skills in public speaking and communication. They will have an understanding of the concept of principle-based decision-making and learn to make responsible financial decisions. In addition, students will develop an understanding of the effects of peer pressure, skills to counteract those effects, bullying prevention and defending skills, and will problem-solving skills. Throughout the class, students will employ various technologies to support and empower them to take their skills to the next level. Students will acquire an understanding of the principles of parenting, enabling them to become better family members and citizens. As members of a community, students also develop leadership skills practiced in the form of community service. They will also develop an understanding of the need for vision in goal-setting, both personally and professionally. Fall2016

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:**One (1) Elective



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## Other Classes Offered

**Course Number:** ME.SKILLS

**Course Name:** Study Skills

**Prerequisite:** None

**Course Description:** This class is designed primarily for 9th and 10th students but is open to other students needing help with their learning strategies. It will provide them with valuable skills that prepare students for high school study and beyond. Language Arts and Math will be emphasized, but the skills are applicable in many subject areas. Students will identify their learning style; will learn how to study according to their learning style; will acquire time-management skills; will learn and understand formulae; will study estimation; will develop skills for listening, note-taking, problem-solving, vocabulary enhancement, reading improvement, memory enhancement, and writing. Test-taking strategies will be taught. This is an interactive course where students will have daily practice and discussions in an effort to improve their classroom performance, homework accomplishment, and test-taking success. (02/03)

**Course Length:** 1 trimesters

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Elective)

**Course Number:** CF.TNCHC

**Course Name:** Teen Choices

**Prerequisite:** None

**Course Description:** The purpose of this course is to acquire academic knowledge and understanding necessary for healthy decision making during the teen years. Students integrate knowledge, skills and practices required by individuals to develop, manage, and strengthen: personal power and success; personal wellness; personal relationships; understanding personal sexuality; and teens and the law. Emphasis is placed on teens as valued individuals who take responsibility for personal success and contribute to family and community well being.

**Course Length:** 1 trimesters

**Period Length:** 1

**Grade Level:** 9-10 grade(s)

**Credit Per Trimester:** 1.0 (Practical Arts or Elective)

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## English

**Course Number:** EN.ENG5

**Course Name:** English 5

**Prerequisite:** English 1, 2, 3, 4

**Course Description:** General and college preparatory students will build upon skills learned during the sophomore year by the study of genre, form and structure, literary devices and recognition of the characteristics of a literary work. A major focus of the course will be an intense study of composition and grammar. Discussion and speech activities are incorporated into the program as well as instruction in conducting formal research.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Credit Per English**

**Course Number:** EN.ENG6

**Course Name:** English 6

**Prerequisite:** Recommended English 1, 2, 3, 4, or English 3,4 Honors or Government and Literature 1, 2.

**Course Description:** English 5/6 prepares students to engage in an array of classic and contemporary works in text, video, audio, and other multimedia formats. Students develop skills and knowledge to become critical readers and writers by analyzing key ideas and details, craft, and structure. This course integrates literature and informational text. Students explore literary criticism with a focus on American literature. Students develop their writing skills by examining various text types, purposes, and rhetorical structures and by crafting arguments, explanatory/informational texts, and narratives. Students use technology to produce, publish, and share quality writing. Students conduct research projects, participate in a range of collaborative discussions, integrate multiple sources of information, and develop style and voice. This course advances students' knowledge of the conventions of Standard English, strengthens vocabulary acquisition and use, and prepares students for real life communications.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Credit Per English**

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## English

**Course Number:** EN.ENG7

**Course Name:** English 7

**Prerequisite:** English 1 – 6

**Course Description:** English 7/8 will provide a full year of growth in the standards and skill required for success in college and careers. English 7 will be modeled after Pikes Peak Community College freshman English courses. The heavy emphasis on nonfiction and writing for college expectations will prepare students to enter two- or four-year colleges with the skills needed to avoid remediation. Students will prepare a portfolio of their writing for assessment.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 11-12 grade(s)

**Credit Per English**

**Course Number:** EN.ENG8

**Course Name:** English 8

**Prerequisite:** English 1-7

**Course Description:** English 7/8 will provide a full year of growth in the standards and skill required for success in college and careers. English 8 will emphasize the study of literature. The writing emphasis will be on literary analysis and readings must include foundational documents of world and/or British literature. English 8 will also include a “capstone” project allowing for student choice in a research-oriented project that may culminate in a multi-genre project/presentation on a topic of their individual interest.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 11-12 grade(s)

**Credit Per English**

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## Other Classes Offered

**Course Number:** FL.SPA2

**Course Name:** Spanish 2

**Prerequisite:** None

**Course Description:** This course develops the language skills of listening, speaking, reading, and writing. Through a variety of enrichment activities and a basic text, the student learns to communicate in the language and to appreciate the culture of the Spanish-speaking world. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Humanities or Elective)

**Course Number:** ME.STASST

**Course Name:** Student Assistant

**Prerequisite:** Teacher recommendation

**Course Description:** The student will assist the staff members in a variety of ways such as lab preparation, clean up, class organization, clerical duties and media assistant. Student assistants (including office, teacher, media center aide, and community service) will be given one-half (.5) credit each trimester and a "G" grade because there is not a Board-approved specific curriculum. The student would receive credit but not a grade for G.P.A., class rank, or honor roll. School District 11 will award a 0.5 trimester credit for approximately 90 hours of community service under the course title of Student Assistant for students working on the Accountability Committee. No grade will be given. This is consistent with current practice in such cases--a trimester of student assisting for 18-20 weeks every day for an hour earns one-half (0.5) of a trimester credit. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 0.5 (Elective credit)

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## Other Classes Offered

**Course Number:** ME.COUN1

**Course Name:** Council 1

**Prerequisite:** None

**Course Description:** All legislative powers exercised by the Student Organization are vested in the student council, which consists of representatives from each class. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Elective credit)

**Course Number:** ME.COUN2

**Course Name:** Council 2

**Prerequisite:** None

**Course Description:** All legislative powers exercised by the Student Organization are vested in the student council, which consists of representatives from each class. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Elective credit)

**Course Name:** Spanish 1

**Prerequisite:** None

**Course Description:** This course develops the language skills of listening, speaking, reading, and writing. Through a variety of enrichment activities and a basic text, the student learns to communicate in the language and to appreciate the culture of the Spanish-speaking world. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Humanities or Elective)

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## Mathematics

**Course Number:** MA.ALG1

**Course Name:** Algebra 1

**Prerequisite:** None

**Course Description:** Algebra 1, 2 is based on the Colorado Academic Standards for Mathematical Content and Practices and is aligned with the expectations of the PARCC Algebra I end-of course assessment. Students' success in this course depends greatly on their mastery of grade 8 mathematics. Topics in this course include the algebraic, numeric and graphical study of functions and systems of functions (linear, quadratic, exponential, square root and cube root, absolute value, piece-wise, and step), transformations of functions, linear inequalities, multi-step contextual problem solving and modeling with functions, and data representation and interpretation. Graphing technology is required for this course

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Mathematics)

**Course Number:** MA.ALG2

**Course Name:** Algebra 2

**Prerequisite:** None

**Course Description:** Algebra 1, 2 is based on the Colorado Academic Standards for Mathematical Content and Practices and is aligned with the expectations of the PARCC Algebra I end-of course assessment. Students' success in this course depends greatly on their mastery of grade 8 mathematics. Topics in this course include the algebraic, numeric and graphical study of functions and systems of functions (linear, quadratic, exponential, square root and cube root, absolute value, piece-wise, and step), transformations of functions, linear inequalities, multi-step contextual problem solving and modeling with functions, and data representation and interpretation. Graphing technology is required for this course

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Mathematics)

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## Mathematics

**Course Number:** MA.ALG3

**Course Name:** Algebra 3

**Prerequisite:** Algebra 1,2 or the equivalent

**Course Description:** Algebra 3,4 is based on the Colorado Academic Standards for Mathematical Content and Practices and is aligned with the expectations of the ACT college readiness assessment and the PARCC Algebra II end- of course assessment. Students' success in this course depends greatly on their mastery of Algebra 1, 2. Topics in this course include the algebraic, numeric and graphical study of functions and systems of functions (polynomial, rational, radical, exponential, logarithmic and trigonometric), transformations of functions, multi-step contextual problem solving and modeling with functions, trigonometric values in the unit circle, complex numbers, probability of compound events (independence and conditional probability), and statistical analysis and decision-making including use of the normal distribution. Graphing technology is required for this course

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

**Course Number:** MA.ALG4

**Course Name:** Algebra 4

**Prerequisite:** Algebra 1,2 or the equivalent

**Course Description:** Algebra 3,4 is based on the Colorado Academic Standards for Mathematical Content and Practices and is aligned with the expectations of the ACT college readiness assessment and the PARCC Algebra II end- of course assessment. Students' success in this course depends greatly on their mastery of Algebra 1, 2. Topics in this course include the algebraic, numeric and graphical study of functions and systems of functions (polynomial, rational, radical, exponential, logarithmic and trigonometric), transformations of functions, multi-step contextual problem solving and modeling with functions, trigonometric values in the unit circle, complex numbers, probability of compound events (independence and conditional probability), and statistical analysis and decision-making including use of the normal distribution. Graphing technology is required for this course

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

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## Social Studies

**Course Number:** SS.USHST3

**Course Name:** US History: Reconst - Present 3

**Prerequisite:** None

**Course Description:** The survey course emphasizes major developments in the history and heritage of the nation during the later half of the 19th century, the 20th century and the beginnings of the 21st century. Standards in history and geography are emphasized as well as an understanding of how past events relate to current events.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-10 grade(s)

**Credit Per Trimester:** 1.0 (Social Studies, Humanities or Elective)

Fulfills American History requirement.

**Course Number:** SS.USHST4

**Course Name:** US History: Reconst - Present 4

**Prerequisite:** None

**Course Description:** The survey course emphasizes major developments in the history and heritage of the nation during the later half of the 19th century, the 20th century and the beginnings of the 21st century. Standards in history and geography are emphasized as well as an understanding of how past events relate to current events.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-10 grade(s)

**Credit Per Trimester:** 1.0 (Social Studies, Humanities or Elective)

Fulfills American History requirement.

## Social Studies

**Course Number:** SS.PSY

**Course Name:** Psychology

**Prerequisite:** None

**Course Description:** Psychology is the study of individual human behavior and mental processes. This introductory course focuses on the nature of behavioral science, methods of scientific study, intelligence, personality, learning, consciousness, stress, adjustment and abnormal behavior. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Social Studies, Humanities or Elective)

**Course Number:** SS.USGOV

**Course Name:** United States Government

**Prerequisite:** None

**Course Description:** The opportunity for most United States citizens to acquire the knowledge and dispositions essential for informed effective citizenship is during their school years. Therefore, United States Government is designed to enhance responsible and informed participation in civic life. This course will incorporate the Colorado Civics content standards, and key themes will include the purpose of government and heritage of United States government, comparative governments, the Constitution as a living document, political parties, citizenship rights and responsibilities, states and local government, and government relations to world affairs. (4/01)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 11-12 grade(s)

**Credit Per Trimester:** 1.0 (Social Studies (fulfills U.S. Government requirement), Humanities, Elective)

## Mathematics

**Course Number:** MA.CONSI

**Course Name:** Consumer Math 1

**Prerequisite:** None

**Course Description:** This course is designed to meet the needs of a young adult in the realm of consumer mathematics. Major topics include budgeting, housing, banking, income tax, insurance, credit, and investments. The course is divided into two non-sequential trimesters, so students may take either one or both. A student may not receive math credit for both Consumer Math and Business Math. This course will not satisfy college entrance requirements (CCHE). Calculators are recommended for this course. (12/96, 12/06)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

**Course Number:** MA.CONSI2

**Course Name:** Consumer Math 2

**Prerequisite:** None

**Course Description:** This course is designed to meet the needs of a young adult in the realm of consumer mathematics. Major topics include budgeting, housing, banking, income tax, insurance, credit, and investments. The course is divided into two non-sequential trimesters, so students may take either one or both. A student may not receive math credit for both Consumer Math and Business Math. This course will not satisfy college entrance requirements (CCHE). Calculators are recommended for this course. (12/96, 12/06)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

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## Mathematics

**Course Number:** MA.ESSN1

**Course Name:** Math Essentials 1

**Prerequisite:** Teacher Placement Only

**Course Description:** Math Essentials conforms to the latest recommendations of the National Council of Teachers of Mathematics (NCTM standards). It follows the approach of making mathematics relevant by using skills in a problem solving environment. This course is designed for students who have not demonstrated mastery of basic math skills. Topics include operations on whole numbers, integers, percents, and rational numbers. Measurement, geometry, statistics and probability with real world applications will be covered. Students may use computers, calculators, and manipulatives for course work. No credit will be given to students who have received credit for Algebra, Algebra with Computers, Integrated Algebra/Geometry, IMP or the equivalent. This course will not satisfy college entrance requirements (CCHE). (12/94, 12/06)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

**Course Number:** MA.ESSN2

**Course Name:** Math Essentials 2

**Prerequisite:** Teacher Placement Only

**Course Description:** Math Essentials conforms to the latest recommendations of the National Council of Teachers of Mathematics (NCTM standards). It follows the approach of making mathematics relevant by using skills in a problem solving environment. This course is designed for students who have not demonstrated mastery of basic math skills. Topics include operations on whole numbers, integers, percents, and rational numbers. Measurement, geometry, statistics and probability with real world applications will be covered. Students may use computers, calculators, and manipulatives for course work. No credit will be given to students who have received credit for Algebra, Algebra with Computers, Integrated Algebra/Geometry, IMP or the equivalent. This course will not satisfy college entrance requirements (CCHE). (12/94, 12/06)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

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## Social Studies

**Course Number:** SS.CNCRLAW

**Course Name:** Constitutional & Criminal Law

**Prerequisite:** None

**Course Description:** This course is designed to explore the constitutional foundations and structure of the federal and state legal systems. Key concepts include the first ten amendments and individual rights, law enforcement, judicial systems, civil and criminal law, and balancing rights with responsibilities. (01/04)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Course Number:** SS.ISSUES

**Course Name:** Current Issues

**Prerequisite:** None

**Course Description:** This course is geared to students who want to know more about the world in which they live. Current trouble spots are examined, as well as age-old problems of civilization. Current issues having historical roots are explored and possible outcome scenarios developed. Emphasis is on the international aspect of the issue. (12/94)

**Course Length:** 1 trimesters

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Social Studies, Humanities or Elective)

**Course Number:** SS.REGCON

**Course Name:** Economics

**Prerequisite:** None

**Course Description:** This class is designed to provide students with insight into the American free enterprise system and practical application of key concepts. The course includes investment strategies, trade, exchange and interdependence, banking services, insurance, and consumer credit. Students will be encouraged to utilize the computer laboratory facilities and will be provided a variety of opportunities to learn about economics through case studies and simulations. (9/04)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Credit Per Trimester:** 1.0 (Fulfills Economics requirement or elective)

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## Social Studies

**Course Number:** SS.AMPOPC

**Course Name:** American Popular Culture

**Prerequisite:** U.S. History 1, 2

**Course Description:** Using music and film as mirrors of American popular culture, this course will trace the growth of music such as the blues, jazz, rock 'n' roll, country, and hip-hop, as well as different genres of popular film. It will explore the appeals and sometimes the ideals behind our popular culture and how this is a reflection upon American society in general.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 11-12 grade(s)

**Credit Per Trimester:**1.0 (Social Studies, Humanities or Elective)

**Course Number:** SS.AMWEST

**Course Name:** American West

**Prerequisite:** None

**Course Description:** The American West traces the history of the trans-Mississippi region from its exploration by the Spanish and the French through the 1900s. Climate, geography, natural resources, land use, and the contributions of various groups entering and living in the area will be studied. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Social Studies, Humanities or Elective)

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## Mathematics

**Course Number:** MA.FNDALG1

**Course Name:** Foundations in Algebra 1

**Prerequisite:** Teacher recommendation and student assessment data

**Course Description:** This intervention course will provide a strong foundation for future courses in Algebra and Geometry. Topics to be covered include variables and expressions, equations and inequalities, factors and exponents, rational numbers, probability, percents, functions, and geometric concepts. No credit will be given to students who have received credit for this course and Mastery Math 1, Nova Net Pre-Algebra 1A, any equivalent Pre-Algebra 1 course or intervention course. This course will not satisfy college entrance requirements (CCHE). 12/06

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-10 grade(s)

**Credit Per Trimester:**1.0 (Math requirement or elective)

**Course Number:** MA.FNDALG2

**Course Name:** Foundations in Algebra 2

**Prerequisite:** Teacher recommendation and student assessment data

**Course Description:** This intervention course will provide a strong foundation for future courses in Algebra and Geometry. Topics to be covered include variables and expressions, equations and inequalities, factors and exponents, rational numbers, probability, percents, functions, and geometric concepts. No credit will be given to students who have received credit for this course and Mastery Math 1, Nova Net Pre-Algebra 1A, any equivalent Pre-Algebra 1 course or intervention course. This course will not satisfy college entrance requirements (CCHE). 12/06

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-10 grade(s)

**Credit Per Trimester:**1.0 (Math requirement or elective)

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## Mathematics

**Course Number:** MA.GEO1

**Course Name:** Geometry 1

**Prerequisite:** Algebra 1, 2 or the equivalent

**Course Description:** Geometry 1, 2 is based on the Colorado Academic Standards for Mathematical Content and Practices and is aligned with the expectations of the PARCC Geometry end-of-course assessment. Topics in this course include coordinate geometry, geometric constructions, transformational geometry, proof of geometric theorems in two-dimensional contexts, multi-step contextual problem solving and modeling with geometry, circle theorems, the Pythagorean Theorem, similarity and trigonometric ratios, volume of geometric solids, two-dimensional cross sections of three-dimensional objects and three-dimensional objects generated by rotating two-dimensional objects.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

**Course Number:** MA.GEO2

**Course Name:** Geometry 2

**Prerequisite:** Algebra 1, 2 or the equivalent

**Course Description:** Geometry 1, 2 is based on the Colorado Academic Standards for Mathematical Content and Practices and is aligned with the expectations of the PARCC Geometry end-of-course assessment. Topics in this course include coordinate geometry, geometric constructions, transformational geometry, proof of geometric theorems in two-dimensional contexts, multi-step contextual problem solving and modeling with geometry, circle theorems, the Pythagorean Theorem, similarity and trigonometric ratios, volume of geometric solids, two-dimensional cross sections of three-dimensional objects and three-dimensional objects generated by rotating two-dimensional objects.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

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## Social Studies

**Course Number:** SS.21CGWH1

**Course Name:** 21st Cent Geo/Wld Hist 1

**Prerequisite:** N/A

**Course Description:** During the first trimester of this 2 trimester course, the emphasis will be on core geographic concepts, including regions, migration, conflict and cooperation, environment and agriculture, and population distribution, density and change. During the second trimester, students apply these concepts to the study of major developments in world history, from the Renaissance to the close of the 19th century.

**Course Length:** 1 trimesters

**Period Length:** 1

**Grade Level:** 9-9 grade(s)

**Credit Per Trimester:**One (1) Required Social Studies Credit

**Course Number:** SS.GEWHST2

**Course Name:** 21st Cent Geo/Wld Hist 2

**Prerequisite:** N/A

**Course Description:** During the first trimester of this 2 trimester course, the emphasis will be on core geographic concepts, including regions, migration, conflict and cooperation, environment and agriculture, and population distribution, density and change. During the second trimester, students apply these concepts to the study of major developments in world history, from the Renaissance to the close of the 19th century. This Course Replaces: WORLD HISTORY: 1450 – PRESENT 2

**Course Length:** 1 trimesters

**Period Length:** 1

**Grade Level:** 9-9 grade(s)

**Credit Per Trimester:**One (1) – Social Studies Elective



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## Science

**Course Number:** SC.PES1

**Course Name:** Phys Science/Earth/Space 1

**Prerequisite:** None

**Course Description:** This course will provide the foundation for the basic concepts of physical science to include heat and thermodynamics, electricity and magnetism, light and sound, mechanics of motions, bonding of chemical molecules, atomic structure, and conservation of mass and energy. In the areas of earth and space sciences, the basic concepts of geologic time, weather and climate, earth and moon system, stars and galaxies, rock and minerals will be covered. (01/02)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)

**Course Number:** SC.PES2

**Course Name:** Phys Science Earth/Space 2

**Prerequisite:** None

**Course Description:** This course will provide the foundation for the basic concepts of physical science to include heat and thermodynamics, electricity and magnetism, light and sound, mechanics of motions, bonding of chemical molecules, atomic structure, and conservation of mass and energy. In the areas of earth and space sciences, the basic concepts of geologic time, weather and climate, earth and moon system, stars and galaxies, rock and minerals will be covered. (01/02)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)

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## Mathematics

**Course Number:** MA.ANTRG1

**Course Name:** Math Analysis/Trig 1

**Prerequisite:** Algebra 3, 4

**Course Description:** The purpose of this course is to prepare students for calculus. It offers an analytical and cohesive study of concepts introduced in previous courses and introduces new topics such as functions, vectors, an analytic geometry, and probability. This course is aligned to ACT expectations and the American Diploma Project expectations. Graphing calculators are required for this course. (12/94, 12/06)

**Course Length:** 1 trimester

**Period Length:** 0

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Math requirement or Elective)

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## Physical Education / Health

**Course Number:** PE.FITLIFE

**Course Name:** Fitness for Life Level 1

**Prerequisite:** None

**Course Description:** This unit will be an introduction to the fine art of running. Fitness and proper body mechanics will be emphasized.

Instruction will include information regarding pace, pulse rate, safety, and equipment.

**Course Length:** 1 trimester

**Period Length:** 0

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Physical Education or Elective)

**Course Number:** PE.PE

**Course Name:** PE

**Prerequisite:** None

**Course Description:** Students who participate in quality physical education programs receive a variety of benefits including the development of: 1) a variety of motor skills and abilities related to lifetime leisure skills, 2) improved understanding of the importance of maintaining a healthy lifestyle, 3) improved understanding and appreciation of movement and the human body, 4) improved knowledge of the rules and strategies of particular games and sports, and 5) improved self-confidence and self-worth as they relate to physical education and recreation activities.

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Physical Education or Elective)

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## Science

**Course Number:** SC.ENVR2

**Course Name:** Envir Science 2

**Prerequisite:** Recommended successful completion of Physical Science/Earth and Space Science and Biology.

**Course Description:** Environmental Science is a systematic study of living systems with emphasis on interaction of the living systems with the natural environments. It teaches students to view the environment as an integral part of their lives and community. This is an issues-oriented environmental studies course that investigates and analyzes community problems and uses knowledge and processes of science to suggest options for the solutions of these problems. This course emphasizes problem solving, decision making, and hands-on learning. (12/95)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)

**Course Number:** SC.ANAT1

**Course Name:** Hu Anatomy/Physiology 1

**Prerequisite:** Recommended successful completion of Physical Science/Earth and Space Science and Biology.

**Course Description:** This course is a systematic study of the structure and functions of the human body. The curriculum covers the major organ systems of the human body as they relate to health and disease. Instruction uses laboratory activities including dissections to enable students to visualize basic anatomical structures comparable to those in humans. It serves as initial preparation for study in physical education, health, and medical sciences. (12/95)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)

## Science

**Course Number:** SC.BIO2

**Course Name:** Biology 2

**Prerequisite:** Recommended successful completion of Physical Science/ Earth and Space Science.

**Course Description:** This is a comprehensive course designed to provide students with the key biological concepts to meet state and district standards. Topics include cell structure and function, general plant and animal biology, and ecological interactions among organisms. Biology skills and processes include problem solving, critical thinking, and hands-on laboratory experiences. (12/95)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)

**Course Number:** SC.ENVR1

**Course Name:** Envir Science 1

**Prerequisite:** Recommended successful completion of Physical Science/ Earth and Space Science and Biology.

**Course Description:** Environmental Science is a systematic study of living systems with emphasis on interaction of the living systems with the natural environments. It teaches students to view the environment as an integral part of their lives and community. This is an issues-oriented environmental studies course that investigates and analyzes community problems and uses knowledge and processes of science to suggest options for the solutions of these problems. This course emphasizes problem solving, decision making, and hands-on learning. (12/95)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)

## Physical Education / Health

**Course Number:** PE.TEAMSPR

**Course Name:** Team Sports

**Prerequisite:** None

**Course Description:** This class will include three week units of basketball, team handball, volleyball, speed ball, flag football, soccer, lacrosse, and softball. Skills and techniques are introduced and developed while forming and developing good attitudes towards teammates, defense, officials, rules, conditions, and positions of the game in basketball, flag football, speedball, softball, soccer, and team handball.

**Course Length:** 1 trimesters

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Credit Per Trimester:** 1.0 (Physical Education or Elective)

**Course Number:** PE.WTRAINING

**Course Name:** Weight Training for Performance

**Prerequisite:** Weights

**Course Description:** This course will teach advanced methods of strength and conditioning using weights, physio balls, and plyometric training. Specificity of sport/activity will be included in students' class portfolio of daily training regiment.

**Course Length:** 1 trimesters

**Period Length:** 1

**Grade Level:** 10-12 grade(s)

**Credit Per Trimester:** One (1) – Physical Education or Elective credit

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## Physical Education / Health

**Course Number:** HE.HEALTH

**Course Name:** Health

**Prerequisite:** None

**Course Description:** This course will influence attitudes toward health which will promote respect for the human mind and body and the factors which foster optimum healthful living. Good health shall be identified as mental, social, and physical well-being and not merely the absence of disease and infirmity. Emphasis will be placed on developing self-esteem and positive interpersonal relationships. The students will be encouraged to explore the emerging health information and develop the ability to weigh the validity of such information for application to their existing health status. (12/94)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Health or Elective)

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## Science

**Course Number:** SC.ASTRO1

**Course Name:** Astronomy/Space 1

**Prerequisite:** Geometry 1, 2 or Technical Applied Math 3, 4

**Course Description:** This course is a systematic study of objects in space and human activity to understand and make use of the environments beyond earth. Instruction includes making models, using charts and graphs, using the planetarium, and data collection and analysis. (12/95)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)

**Course Number:** SC.BIO1

**Course Name:** Biology 1

**Prerequisite:** Recommended successful completion of Physical Science/Earth and Space Science.

**Course Description:** This is a comprehensive course designed to provide students with the key biological concepts to meet state and district standards. Topics include cell structure and function, general plant and animal biology, and ecological interactions among organisms. Biology skills and processes include problem solving, critical thinking, and hands-on laboratory experiences. (12/95)

**Course Length:** 1 trimester

**Period Length:** 1

**Grade Level:** 9-12 grade(s)

**Credit Per Trimester:** 1.0 (Science requirement or Elective)