

Class Descriptions

1st Session 2014

1st Session

Dan:

Dan – Astronomy Earth Science / Science Elective

In this astronomy class, we will study the structure of the universe, the composition and life span of stars, and components of our solar system. The theories used to explain astronomical events will be explored.

Dan – Introduction to STEM LAB (SMART Lab) Any Science

2nd and 3rd periods; students must sign up for both periods. The Englewood school bus will take and return students to EMS (our new building) for this class. What's a SmartLab?

"A SmartLab is a 21st century learning lab. It's a next-generation learning environment, rich in professional-standard technology. It's a project-based, student-centered curriculum supporting STEM (science, technology, engineering, and mathematics) and other core academic content. It's a powerfully integrated system of furniture, hardware, software, electronics, multimedia equipment, construction kits and manipulatives, curriculum and assessment tools. It's an intelligent turnkey solution that includes curriculum, professional development, systems integration, and robust support. But that's just the beginning."

Dan – Advanced STEM LAB Any Science

This class is for students who have already taken Introduction to STEM LAB.

2nd and 3rd periods; students must sign up for both periods.

The Englewood school bus will take and return students to EMS (our new building) for this class.

Dan – Chemistry of Fire Physical Science / Science Elective

Students will observe the effects of exothermic and endothermic reactions and from that refine their definitions of heat, temperature, and thermal energy. The first two laws of thermodynamics will be exploring using thermal equilibrium, specific heat capacity and latent heat. Using this information, students will explore combustion reactions (yes, fire). Students will then look at what calories are, how they are measured, and how different fuels compare.

Kendrick:

Kendrick – Introduction to Cells (9/10) Biology / Science Elective

What do cells look like? What are cells made of and what makes some cells look different from others? How do molecules enter and exit cells? Students will study how molecules form a variety of specialized structures in cells. Students will explore specialized structures in cells that affect human health.

Kendrick – Introduction to Chemistry (9/10) Physical Science / Science Elective

We will experiment and discover the properties of matter. You will be able to classify and describe how matter will interact when you design experiments to find out about it. We'll even turn on the Bunsen burners.

Do atoms have similar characteristics, just like a family? Is there an order to all of the atoms that make up the world? Find out as we explore the Periodic Table of the Elements and the stuff that makes up stuff.

Kendrick – Ice Ages (9/10) Biology / Science Elective

We will analyze data and evidence to determine how often the Earth has been in an Ice Age and what the effect of those ice ages had on the land and sea life.

Eric:

Eric – Geometry 2

Geometry / Math Elective

GEOMETRY 2 - Take this after completing the Algebra series (A1 – A6) and after completing Geometry 1

This course discusses and applies the properties of special quadrilaterals and other polygons. Students will also examine properties of circles, including arcs of circles, as well as the segments and angles associated with circles. It applies deductive methods to establish relationships among and between angles, arcs, chords, secants, and tangents.

Eric – Algebra A1

Algebra / Math Elective

Take this after Pre-Algebra or to start the algebra series. In this course students will build on previous knowledge and use the Order of Operations, the Distributive Property, substitution and other properties of real numbers to simplify expressions and to write equivalent expressions. Students will also explore basic exponents and combining Like Terms, including multiplying variables.

Eric – Algebra II (B1)

Algebra / Math Elective

(Math elective or algebra boxes with instructor permission.) This course is a continuation of the algebra sequence.

Students must have successfully completed the algebra sequence prior to enrolling and have instructor permission. Topics covered may include but are not limited to using function notation to explore linear, quadratic, exponential, rational and other special functions; graphing and solving systems of inequalities; working with polynomial expressions using factoring procedures.

Eric – Statistics

Math Elective

In this course, students will learn how to find, use, and apply the Measures of Central Tendency. They will organize data into various pictorial representations including Box-and-Whisker, Stem-and-Leaf Plots, Circle Graphs, Bar Graphs, and Histograms.

Eric – Math Skills (any math level)

Math Elective

Is to help students at all math levels become proficient in specific areas. It is for students needing help in their current math classes, seniors working to pass the MAP, students struggling with number sense (fractions, decimals, %, +- numbers) or students who have not started the math sequence and need to practice to get prepared for Algebra or Geometry.

Ginger:

Ginger – Algebra A4

Algebra / Math Elective

Take this after Algebra A3

This course examines systems of two linear equations and systems of two linear inequalities. Students first graph two equations on a single coordinate system and identify the point of intersection to find the solution. Students then explore solving a system of two linear equations or inequalities through algebraic methods such as substitution and elimination.

Ginger – Geometry 3

Geometry / Math Elective

Take this after completing the Algebra series (A1 – A6) and after completing Geometry 2

Students will apply postulates and theorems of triangle congruence to prove that triangles are congruent. Students will also expand on congruence properties to examine other congruent figures. The course continues with discussing the four isometric transformations: translations, reflections, glide reflections, and rotations. Isometric transformations describe how geometric objects change position, orientation, or even shape though the properties that characterize their identity remain unchanged.

Ginger – Geometry 1

Geometry / Math Elective

GEOMETRY 1 – Take this after completing the Algebra series (A1 – A6) and to start the Geometry Series (1 – 6)

This course begins with the basic tools of geometry. Students will explore segments, rays, types of lines, planes, types of angles, and measuring angles. Students will use inductive reasoning to formulate and verify conjectures. The concepts of perimeter, circumference, and area of various figures will be reviewed. Then the course develops a number of area formulas, principally for triangles, quadrilaterals, circles, regular polygons, and sectors. Students will learn, apply, and investigate the Pythagorean Theorem.

Ginger – Geometry Clean-Up

Geometry / Math Elective

This class is for students who **have completed a year of Geometry** and still need Geometry points.

Dylan:

Dylan – The Earliest Americans

US History / SS Elective

Have you ever wondered what the United States of America was like . . . before it was the United States of America?

This course will study the history of European colonization of the Americas with a primary focus on the English colonies that eventually achieved independence as the United States of America. We will also look at the combinations of customs, traditions, and social practices that governed the daily lives of the citizens of British colonies in North America prior to the American Revolution.

Dylan – Global Issues / History of Genocide

World History / Geography / SS Elective

This class will be designed to study what is really happening in Rwanda and Darfur. Students will study what happened during the Holocaust and other events in history. We will examine why genocide has occurred and the global impact it has left behind.

Dylan – Current Events

Any Social Studies

This class will focus on news and political/economic happenings with an emphasis on current hot spots and crises.

Chris:

Chris – Financial Literacy: for Juniors & Seniors ONLY

Economics / SS Elective

Chris – Big Brothers/Big Sisters

Sociology / PE / Community Service

STUDENTS MUST SIGN UP WITH CHRIS, TEACHER APPROVAL TO TAKE THIS CLASS. Co-teaching this with Jana
STUDENTS MUST TAKE BOTH 2nd and 3rd PERIODS.

This class will be a block class, and students will be taking a school bus to Charles Hay Elementary School daily.

We will be working with various grade levels helping elementary students develop teamwork, physical education skills and boosting self esteem.

Chris – Google Earth

Geography / SS Elective

Mac Lab will be used.

This class will focus on creating a mental map of the world. This will occur through memorization of country locations and physical features on the planet. We will use Google Earth to navigate around the planet comparing and contrasting different places on the Earth's surface.

Chris – Surviving the Elements

Geography / SS Elective

In Dan's Room

In this class we will read the book *Touching The Void*, which documents the experience of mountain climbers in Peru. It is a survival story and we shall explore the risks that humans face in the wild environments of our planet.

Chris – Elections

Government / SS Elective

In this class we will focus on the function of government and how people can participate in the political process. We shall also focus on why people get involved and the issues that motivate this involvement.

Sherri:

Sherri – Taboo

Psychology / SS Elective

Things we may think are strange or "Taboo" are actually quite acceptable in other cultures. We will be learning about some of these things and world cultures.

Sherri – New Student Orientation Elective

THIS CLASS IS FOR ALL NEW STUDENTS STARTING CFAHS THIS SESSION.

In this class you will learn what it means to be here at C.F.A.H.S. We will examine box sheets, yellow cards, attendance, golden rules, and everything you could want to know about this school. By the time this class is over, you will have a good understanding of this school and what is expected of you the student.

Sherri – Volleyball P E / Elective

Come learn to play volleyball and have fun. We concentrate on learning the fundamentals and not jungle ball. No horseplay will be tolerated.

Sherri – Social Studies Clean-Up Any SS Credit / SS

Come finish those Social Studies points on your box sheet.

Christopher:

Christopher – Build your Own Society (BYOS) Gov't / World History / Sociology / SS Elective

How would you design a society if you had the chance? Would it be a democracy or an autocracy? How would you raise and spend money? What values would you hold above others? Decide how to run things... and suffer the consequences!

Christopher – Career Portfolio Technology / Economics / Social Studies Elective

Create an online portfolio as you plan your career, education and personal goals. Every student will have a resume published on the web, plus create a video mock interview and a final write-up that sets their goals for the first five years after high school and beyond!

Christopher – History of Fashion World History / US History / Elective

Fashion changes over time, reflecting the cultural values and ideas of the period. In this course we will trace the transformation of clothing from antiquity through today, focusing on both the practical elements and aesthetics. Students will sketch their own designs to complete on the computer plus create a portfolio of fashion. With enough interest we'll even hold a fashion show.

Christopher – GRAD POINT Independent Study / ON LINE Science / Health / Social Studies

Students can take a single online Gradpoint class each quarter. This is an independent, extra class beyond the minimum of 5 classes (so students must have been at 90% the previous session). This can be a 6th, 7th, 8th, or even a 9th class for qualifying students!

Jon:

Jon – Animal Farm World Literature / World History / English Elective

Animal Farm a wonderful political allegory, which investigates power and corruption in a unique society. We will read this horrifying novel and discuss political and social implications.

Jon – New Student Orientation Elective

THIS CLASS IS FOR ALL NEW STUDENTS STARTING CFAHS THIS SESSION.

In this class you will learn what it means to be here at C.F.A.H.S. We will examine box sheets, yellow cards, attendance, golden rules, and everything you could want to know about this school. By the time this class is over, you will have a good understanding of this school and what is expected of you the student.

Shanna

Shanna – Newspaper Comp / English Elective

Newspaper is a journalism class. It will focus on improving journalistic writing skills, while discussing and researching current events and hot topics. The goal of this class will be to compose a newspaper to share with the school.

Shanna – King Lear

World Literature / English Elective

Students will be reading this famous Shakespearean play in small groups and whole groups to best role play some of the piece. They will take part in short writings and discussions over all the major literary devices used, as well as, plot development.

Shanna – Writing Skills B

Comp / English Elective

The goal of this class is to prepare students for academic writing at the high school level and beyond. It will be helpful for a variety of writing challenges, and it is a great review for students who have not taken a composition class in a while. This class is for students who have scored between 7-9.

Shanna – Poetry

American Literature / World Literature /English Elective

Independent writing of any style of poetry will be taught in this class through a structured portfolio format. Students will learn technique, style, purpose and a variety of forms. Students will assess their problem areas and improve those areas through rewriting and student work shopping. Be prepared to read, write and perform a variety of poetry, including slam poetry, haiku, limerick, sonnet, and many more!

Bob:

Bob – Merchant of Venice

World Literature / English Elective

This Shakespearean Play looks at what happens when a merchant borrows money to impress a lady, but agrees to some odd terms with the moneylender. The merchant is loaned the money without interest, but if he cannot repay the loan he has to give the moneylender a pound of his own flesh in repayment

Bob – Speech

Speech / English Elective

Students will research, compose and speak a variety of formal speeches in front of their peers. The speech modes delivered are demonstration, information, and persuasive. They will apply standard conventions to their speeches and will use formal delivery techniques. This is a graduation requirement and speech credit will be awarded.

Bob – Reading Plus

English Elective

In Lab

Reading Plus® picks up where phonics and oral reading instruction leave off, providing rapid and sustainable comprehension and silent reading fluency gains. The system's assessments, individualized dynamic intervention, and progress monitoring provide the solutions needed to effectively identify and remediate struggling students, as well as others who could benefit from silent reading fluency development.

Bob –Writing Skills A

Comp / English Elective

The goal of this class is to prepare students for academic writing at the high school level and beyond. It will be helpful for a variety of writing challenges, and it is a great review for students who have not taken a composition class in a while. This class is for students who have scored a "6" or below.

Becky:

Becky – Literacy: College Prep (ACC, English 092)

Comp / American Lit / World Lit / English Elective

This class is part of the Arapahoe Community College curriculum designed to support students and prepare them for college level English classes. Juniors and seniors are welcome to take this class to prepare for college, but you must make a commitment to work hard and remain in the class for the entire year. Students will integrate and contextualize college level reading and writing. Students will read and understand complex materials and respond to ideas and information through writing informative and/or persuasive texts.

Becky – Research Paper

Comp / English Elective

You will learn and put into practice all of the steps required for a five to ten page research paper. At the end of the session, you will have written the rough draft as well as editing, rewriting, and formatting you finished paper.

New LA Teacher:

New LA – Choice Reading

American Literature / World Literature / Comp / English Elective

After choosing your own book, learn literary tools to enhance your reading experience. The book choices are CFAHS student approved, so I'm sure you'll find a book you'll like.

New LA – Speech

Speech / English Elective

Students will research, compose and speak a variety of formal speeches in front of their peers. The speech modes delivered are demonstration, information, and persuasive. They will apply standard conventions to their speeches and will use formal delivery techniques. This is a graduation requirement and speech credit will be awarded.

New LA – Writing Competency

Comp /English Elective

This course is designed to help you pass the writing competency test. This is a workshop style class so be ready to write everyday and revise until it's perfect! Be ready to experience intensive writing practice. This class is for students who have scored at 10th grade or lower.

New LA – Writing Skills B

Comp / English Elective

The goal of this class is to prepare students for academic writing at the high school level and beyond. It will be helpful for a variety of writing challenges, and it is a great review for students who have not taken a composition class in a while. This class is for students who have scored between 7-9.

New LA – Teen Issues: The Struggle to be Strong "Project Resilience"

English Elective

This class will focus on resilience and where it comes from. We'll read true stories written by teens about overcoming tough times. We'll write about and discuss how we handle stress & troubles, live through adversity, and move forward with confidence, courage and hope. You'll find tools that can help build the skills and strengths you need to win your own battles. We'll also study The 7 Habits of Highly Effective Teens to improve self-image, build friendships, resist peer pressure, achieve goals, and much more! All are welcome to take this journey with me, but you must be open to self-help & life skills lessons!

Jana:

Jana – CPR & First Aid

Health / Science Elective

Don't get caught unaware in an emergency situation, which may involve your loved ones! Learn basic emergency principles, rescue breathing, CPR, and more in this class designed to meet your graduate requirement for first aid. A must for all seniors! There will be tests! ***This class will be limited to 20 students.***

Jana – Big Brothers/Big Sisters

PE / Sociology / Community Service

STUDENTS MUST SIGN UP WITH CHRIS, TEACHER APPROVAL TO TAKE THIS CLASS.

Co-teaching this with Chris Anderson

STUDENTS MUST TAKE BOTH 2nd and 3rd PERIODS.

This class will be a block class, and students will be taking a school bus to Charles Hay Elementary School daily.

We will be working with various grade levels helping elementary students develop teamwork, physical education skills and boosting self esteem.

Jana – Football

PE / Elective

We will be playing flag football in this class. You will and must participate everyday to earn your point. There will be absolutely no tackling or rough play tolerated. Also, no whining! We will be outdoors so dress appropriately and with proper footwear.

Jana – Fitness

PE / Elective

This course is designed to give students the opportunity to learn about the five areas of health-related physical fitness and various conditioning techniques used for obtaining optimal physical fitness. Activities may include weightlifting, circuit-training, and other activities geared toward improving students' current fitness levels. Students will be

empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

Jana – Team Sports PE / Elective

This course is designed to give students the opportunity to learn and develop skills and strategies in a variety of team activities. Emphasis will be on participation and learning the basic rules and regulations of each sport/activity. Activities may include, but are not limited to, two or more sports such as Football, Basketball, Softball, Ultimate Frisbee and Volleyball. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

Kim:

Kim – Darwin's Studio with Matt Art / Elective

Students will spend half their time learning about Charles Darwin and how he changed the understanding of the evolution of species. They will spend the other half of their time learning how to draw different types of organisms (Plants, animals, etc.). There will be multiple field trips where students will play the role of Darwin as they draw and infer why different species have specific anatomical characteristics.

Kim – Yoga PE / Health / Elective

This class is a physical education class. We will be doing yoga (a stretching and relaxation exercise), mainly from tapes on the VCR. Students will be working on wellness, monitoring water intake, and practicing healthy living. They won't just be bending their bodies into pretzel shapes!

Kim – Painting Art / Elective

In this class students will learn basic aspects of painting with acrylic paint. Students will create their own paintings and be involved discussing their work and the works of master painters.