

MEAD HIGH SCHOOL

COURSE DESCRIPTION CATALOG

2026-2027

Mead Graduation Requirements

Math- 30 credit hours (10 hours required in Algebra I and 10 hours required in geometry) The other 10 hours must be taken during student's junior year. Students are strongly encouraged to also take a math course senior year.

Science - 30 credit hours (10 hours required in physical science and 10 hours required in biology)

Social Studies- 30 credit hours (10 hours required in American History and 10 hours required in government)

English- 40 credit hours (30 hours required in Eng I, Eng II & Eng III)

Speech - 5 credit hours

Health - 5 credit hours

Financial Literacy-5 credit hours (taken in grades 10, 11, or 12; either personal finance, consumer math, or an approved dual credit financial literacy course)

P.E. - 10 credit hours (5 hours required from PE 9)

Intro to Computer Science/Technology- 5 credit hours

Elective Classes - 80 credit hours

Total Required - 240 credit hours

In addition, each student shall also complete and submit a Free Application for Federal Student Aid prior to graduation, unless the required opt-out form is completed by either: (1) the student's parent or legal guardian; (2) the Principal, if the Principal determines that good cause exists not to require the student to complete the FAFSA; or (3) an emancipated student or student of at least 19 years of age.

UNL ADMISSIONS STANDARDS

Below are the basic core entrance requirements for the University of Nebraska at Lincoln that is typical of many colleges or universities. Nebraska Wesleyan University is similar except NWU requires up to four years of natural science. Students should always check a college catalog or ask a college representative or the guidance counselor what high school classes are needed to prepare them for a particular college since admissions standards vary for each school.

UNL Admission Requirements

- 4 units of college preparatory English
- 4 units of math (including Algebra I, II, Geometry, and one that builds on algebra or geometry)
- 3 units of natural sciences (two from biology, chemistry, physics or earth sciences; one of these must include lab instruction. Students applying to the College of Engineering and Technology need two of the three units to include chemistry and physics.)
- 3 units of Social Studies (history, government, geography, economics, psychology, or other social science courses.)
- 2 to 4 units of foreign language. (UNL entrance requires 2, but graduating depends on the College enrolled in, e.g. College of Fine Arts requires 4 units to graduate from UNL. Students may be required to take a foreign language placement exam if they have less than four years of the same foreign language.)

UNL PERFORMANCE REQUIREMENTS

To qualify for admission, new freshmen must meet both the University's performance and high school core requirements for admission. Performance requirements are:

- Test scores: Achieve an ACT composite score of 20 or above, or an SAT score of 950 or above.
- OR**
- Class Rank: Rank in the top one-half of their high school class.

COLLEGE PLANNING FOR ATHLETES

National Collegiate Athletic Association (NCAA)

The NCAA Clearinghouse has launched a series of services to support prospective student-athletes are noted below. ACT and/or SAT need to be sent directly from the testing agency to NCAA for student-athletes planning to enroll at Division I or Division II institutions.

Clearinghouse Customer Services

- Clearinghouse mailing address:
NCAA Clearinghouse
301 ACT Drive
Box 4043
Iowa City, IA 52243-4043
- Clearinghouse customer service hours:
8 a.m. to 5 p.m. Central Time Monday through Friday
- Toll Free phone numbers (domestic callers only):
Customer Service Line - 877/262-1492
- Fax Number: 319/337-1556

Agriculture, Food and Natural Resources

Agribusiness:

Class size: 20

Grade Level: 10-12

Elective

Credit: 5

Semester

Prerequisite: None

This semester course teaches students the basics and fundamentals of agribusiness and ag finance. Subjects will include fundamental equations used within the agribusiness industry. The curriculum will be based on BriefCASE, a program of the National Association of Agricultural Educators. Time will also be set aside for record books, proficiency awards and state degree applications.

Introduction to Agriscience:

Class size: 20

Grade Level: 9-12

Elective

Credit: 10

Year

Prerequisite: None

This is an introductory agriculture course focused on learning and understanding all parts of the agricultural industry. This course is designed as a beginner course for further agricultural education courses. Topics covered are National FFA Organization facts, fundamentals of leadership, careers in agriculture, supervised agriculture experience programs, record keeping, natural resource management, animal sciences, plant sciences and fundamentals of agriculture mechanics.

Nursery and Landscape (former Agronomic Science):

Class Size: 20

Grade Level: 10-12

Elective

Credit: 5

Semester

Prerequisite: None

This course allows students to apply knowledge from Plant Science. Students develop and hone skills within floral design, greenhouse production, gardening and other plant science areas including the plant kingdom, origin and structure of plants and anatomy of plants; working in the greenhouse and with live plants as often as possible.

Plant Science:

Class size: 20

Grade Level: 10-12

Elective

Credit: 5

Semester

Prerequisite: None

This course is an introductory overview of the plant industry and skills needed for a career in this industry; including poinsettia production, nutritional requirements, propagation, soil science, and landscape management. Students will use the greenhouse and live plants as often as possible for the course.

Leadership

Class size: 20

Grade Level: 10-12

Elective

Credit: 5

Semester

Prerequisite: None

This course focuses on interpersonal skills. First focusing on career readiness through Habitudes, then Myers-Briggs personality type dynamics followed by developing successful habits. Students work in groups to develop team work and leadership skills through experiential activities. This self-reflective course requires group discussion and participation. Students will be required to participate in FFA Leadership Development Events.

Animal Science:

Class size: 20

Grade Level: 10-12

Elective

Credit 5

Semester

Prerequisite: None

This course provides an overview of the animal science industry. It includes animal selection, behavior, genetics, nutrition, disease, meat science and evaluation focusing on beef, swine, horses, sheep, goats, and poultry. If time permits, animal identification, restraint and immunization will be studied. This class allows students to develop skills within the livestock industry necessary for a career in animal science.

Natural Resources:

Class size: 20

Grade Level: 10-12

Elective

Credit: 5

Semester

Prerequisite: None

This class will explore topics integral to the history, importance, conservation and administration of wildlife management including habitat requirements, destruction and preservation, sport hunting and fishing, national parks and zoos. Several wildlife species found in Nebraska will be highlighted.

Ag Mechanics

Grade Level: 10-12

Credit: 5

Class size: 15

Elective

Semester

This course is an introduction to small gasoline engines. Students will gain basic knowledge in the areas of small engines. Subject areas will include small engine history, engine systems and operations and shop safety including small engine specific tools, hand tools and power tools. Students will spend most of the course in the shop using a variety of tools, equipment, and materials to tear down and reassemble Overhead Valve engines and L-Head engines.

Welding:

Grade Level: 10-12

Credit: 5

Class size: 15

Elective

Semester

This course is an introduction to shop safety for welding and the basic processes of welding including Oxyacetylene (O/A), Shielded Metal Arc Welding (Stick Welding), Gas Metal Arc Welding (Wire Welding) and Tungsten Inert Gas Welding (TIG). Each of these welding processes will be covered in class and students will have the opportunity to improve their skills of each of these welding processes in the shop.

ART**Fundamentals of Art:**

Grade Level: 9-12

Credit: 5/10

Class size: 15

Elective

Semester/Year

Prerequisite: None

Students will explore several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and create individual works of art. Initial courses emphasize observations, interpretation of the visual environment, visual communication, imagination, and symbolism. Courses cover the language, materials, media, and processes of a particular art form and the design elements used. Students will be taught the basics of various art mediums and studies to give a broad overview of material use and processes. Courses may also include the study of major artists, art movements, and styles.

Art Studio (I, II, & Advanced):

Grade Level: 10-12

Credit: 5/10

Class size: 15

Elective

Semester/Year

Prerequisite: Fundamentals of Art

Students will explore one or several art forms (e.g., drawing, painting, two- and three-dimensional design, and sculpture) and to create individual works of art. This course emphasizes observations, interpretation of the visual environment, visual communication, imagination, symbolism, and independence. This advanced course encourages students to refine their skills while also developing their own artistic styles following and breaking from traditional conventions. Courses may also include the study of major artists, art movements, and styles. Students will be led by the instructor through "Big Ideas" teaching, but this is a student led course. The instructor will aid in advancing knowledge on various materials.

BUSINESS, MARKETING, AND MANAGEMENT**Accounting I:**

Grade Level: 10-12

Credit: 10

Class size: 15

Elective

Year

Prerequisite: None

Accounting is intended to be a basic accounting/record keeping class. This course will focus on the basic accounting principles of: assets, liabilities, owner's equity, accounts payable, accounts receivable, revenue, and payroll.

Personal Finance:

Grade Level: 10-12

Credit: 5

Class size: 20

Financial Literacy Req.

Sem

Prerequisite: None

This class is designed to prepare high school students to make wise financial decisions in personal situations. The program helps students realize that they are already making financial decisions and shows them how their decisions affect their future. The focus of the class will be on creating and maintaining a budget, making wise choices as a consumer, learning how to manage bank accounts, and finally using credit wisely. This course will also include a section on the skills one needs as a future employee. We will build resumes, write cover letters and talk about all the skills necessary to survive in the working world upon leaving high school.

Intro to Business:

Grade Level: 10-12

Credit: 10

Class size: 20

Elective

Year

Prerequisite: None

This is a basic course in business preparing students for work in any business setting. Specific topics include types of businesses, basic economic principles, advertising, design, marketing, business operations and sales procedures. Careers in various aspects of business will be integrated throughout the course.

Economics:

Grade Level: 10-12

Credit 5

Class size: 20

S.S. Elective

Semester

Economics is the study of the production, the distribution and the consumption of goods and services. In this introductory class we will focus on those three areas as they relate to the world of business and also how they affect us as consumers of those good and services. We will also take a look at the laws of supply and demand and how they affect consumer prices.

Business Law:

Grade Level: 10-12

Credit:5

Class size: 20

Elective

Semester

This is a basic course in the area of Business Law. The students will be introduced to legal ethics as well as the differences between criminal law and civil law. After that the students will do a more in-depth study of Contract Law, Landlord Tenant Law, The law of Torts (negligence), Consumer Law, Wills and Trusts, and finally the law of Credit.

COMPUTERS**Introduction to Computer Science & Technology:**

Grade Level: 10

Credit: 5

Class size: 18

Required

Semester

Prerequisite: Previous Keyboarding

Students will learn knowledge and skills related to computer literacy, digital citizenship, information technology, cybersecurity, computer science, and educational technology.

Computer Science Principles:

Grade Level: 10-12

Credit: 5

Class size: 18

Elective

Semester

Prerequisite: Algebra I

Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. It is important to note that the course does not have a designated programming language.

Digital Media:

Grade Level: 9-12

Credit: 5/10

Class size: 18

Elective

Semester/Year

Students will create, design and produce digital media including sound, video, graphics, text, and animation. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboard-ing, visual development, project management and web processes.

ENGLISH**British Literature:**

Grade Level: 11-12

Credit: 5

Class size: 15

Elective

Semester

Prerequisite: English III

British Literature exposes students to important works by British authors. Readings include some translation from Old and Middle English: Beowulf and The Canterbury Tales. Modern English works include Macbeth/ Hamlet, Seventeenth Century poets, Restoration period essayists, poems from the Romantic and Victorian Ages, and short stories and poetry from the Modern Age. Thorough discussion of the mystery genre and Agatha Christie's contributions to the genre. Students also get a sense of how the history of the nation affected the literature. Daily reading assignments are often lengthy and complex.

<u>Creative Writing:</u> Class size: 20 Pre/co-requisite: English III This class is designed to develop creative thinking and use of imagination which will be incorporated into written form. Students will be taught a variety of writing techniques which will help them improve their writing skills. The variety of writing assignments will be based on the needs, interests, and abilities of the individuals in the class. Proper mechanics, usage, and grammar, as well as computers use will be an integral part of the course. Focus will be on quality rather than on quantity. Students will be challenged to elevate their thinking levels and writing styles as well as learn to meet deadline requirements. Preparation for college, through writing, is a strong focus in this class.	Grade Level: 11 - 12 Elective	Credit: 10 Year
<u>English I:</u> Class size: 24 Prerequisite: 8 th Grade English English I is composed of four integrated components: grammar, usage, writing and literature. The conventions of standard English will be the focus of the course, enabling students to speak and write correctly. The literature covered in English I builds upon short stories, and introduction to Greek Mythology, and social issues presented in two novels. The writing focus is on persuasive writing.	Grade Level: 9 Required	Credit: 10 Year
<u>English II:</u> Class size: 24 Prerequisite: English I English II will expand on the knowledge of correct usage and mechanics through review and written assignments. This course will be more literature based than English I. Short stories, drama, non-fiction, and one novel will be read. Writing includes short skills developmental writing, a literary analysis essay and an ACT persuasive style essay.	Grade Level: 10 Required	Credit: 10 Year
<u>English III:</u> Class size: 24 Prerequisite: English II The focus of English III is reading and writing. Several forms of literature will be read and discussed. American writers will receive the bulk of the attention. Students will be expected to expand on previous writing experience to compose thoughtful, coherent essays. The course will include at least one multi-page research paper.	Grade Level: 11 Required	Credit: 10 Year
<u>Journalism (I, II, III, IV) :</u> Class size: 20 Prerequisite: application/approval Journalism's main goal is to produce a top-quality yearbook. Class members will be responsible for developing theme, designing pages, writing copy, taking photos, and advertising and sales. All of these will be developed through reading and writing assignments, and actual hands on projects. Student work will be entered in the Nebraska Schools Activities Association (NSAA) state journalism contest. Students not actually in the class may also contribute to the yearbook and state journalism material.	Grade Level: 9-12 English or Elective	Credit: 10 Year
<u>Novels:</u> Class size: 15 Prerequisite: None This course will focus on reading for comprehension, understanding, and enjoyment. It is also intended to improve students' ability to write about literature in traditional essays. Students can expect lengthy reading assignments on a daily basis, many of which will be self-administered.	Grade Level: 11-12 Elective	Credit: 5 Semester
<u>Research Writing:</u> Class size: 15 Prerequisite: None Research Writing will benefit college-bound students. The semester long course will focus on improving student's ability to analyze culture, historical elements, form and symbolism from advertisements, vintage radio shows, cartoons, poetry and short stories. Students will also locate, analyze and accumulate research and resources for a future job or career and an APA style term paper. This course is designed to touch on the critical thinking and writing skills students will use in a variety of courses in college.	Grade Level: 11-12 Elective	Credits: 5 Semester

<u>Speech:</u>	Grade Level: 10	Credit: 5
Class size: 20	Required	Semester
Prerequisite: None		
Speech aims at building confidence and ability for public speaking. Class assignments will teach students the basics of public speaking, which will then be used in speeches ranging from one to eight minutes in length.		

FAMILY AND CONSUMER SCIENCE

<u>Adult Living:</u>	Grade Level: 11-12	Credit: 10
Class size: 20	Elective	Year
Prerequisite: None		
This year-long course is designed to cover topics relevant to adult life. The first semester focuses on career development, preparation for the workforce, and personal finances. The final will be a series of job interview practice sessions. The second semester will explore subjects such as nutrition and food, relationships, dating, marriage, and parenthood. Particular attention will be given to communication skills, addressing prejudice, dating violence, financial literacy, and current events impacting adult living.		

<u>Textiles, Construction, and Design:</u>	Grade Level: 10-12	Credit: 5
Class size: 8	Elective	Semester
Prerequisite: None		
Every other year course		
This semester-long course is designed to make the student knowledgeable about being a textile consumer. We will explore careers in this industry as well as learn about fibers, fabrics and weaves. Special attention will be given to the elements and principles of design. A great deal of time will be spent working on textile projects. Students are responsible to provide and pay for the supplies needed to make their projects.		

<u>Nutrition/Foods:</u>	Grade Level: 10-12	Credit: 10
Class size: 12	Elective	Year
Prerequisite: None		
This class provides students with knowledge and skills about food preparation, with a strong emphasis on nutrition and nutritional analysis, balanced diets, and satisfying special dietary needs. It includes safety and sanitation, proper use of equipment, food processing, meal planning and preparation, current food issues, the role of food in the family and global society and the demonstration of teamwork skills.		

<u>Food Science:</u>	Grade Level: 10-12	Credit: 5
Class size: 16	Elective	Semester
Prerequisite: None		
Food Science is a semester class that focuses on the study of the production, processing, preparation, evaluation, and utilization of food. It is based on various other areas of science such as chemistry, biology, physics, and psychology. We will be using scientific methods in laboratory experiments to help understand food. We will pay particular attention to food safety issues. (Fulfills science requirement for high school graduation, but will not count as science credit for most colleges.)		

<u>Introduction to FCS:</u>	Grade Level: 9-10	Credit: 10
Class size: 16	Elective	Year
Prerequisite: None		
This year-long course will include several of the subject matter areas in the Family and Consumer Science field. Areas of emphasis will include relationships, communication, family life and crisis situations, food preparation, child development, and housing. Lab experiences are offered in the area of food and nutrition.		

<u>Parenting:</u>	Grade Level: 10-12	Credit: 5
Class size: 16	Elective	Semester
Prerequisite: None		
This semester course is designed to teach students the importance of parenting. It will tackle many of the issues of parenting in our society such as appropriate discipline and safety. Special emphasis will be placed on the four areas of development.		

<u>Human Development:</u>	Grade Level: 10-12	Credit: 5
Class size: 16	Elective	Semester
Prerequisite: none		

The study of human development (physical, mental, emotional and social) from infancy through adolescence. Includes how to develop positive interactions with and guiding the development of each age.

Introduction to Design:

Class size: 16

Grade Level: 9-12

Credit: 5

Prerequisite: none

Elective

Semester

This introductory course explores the definition, application and evaluation of elements and principles of design in the interior and apparel industries. Topics covered include knowledge of textiles, apparel skills, and interior design skills. Design technology, career opportunities and the skills necessary for careers in design will also be included.

FOREIGN LANGUAGES

Spanish I:

Class size: 25

Grade Level: 9-12

Credit: 10

Prerequisite: None

Elective

Year

Spanish I is an introduction to the simple structure of the Spanish language. Students will be taught the basic skills of language learning through listening, reading, speaking and writing in Spanish. Emphasis is also given to Hispanic Culture.

Spanish II:

Class size: 25

Grade Level: 10-12

Credit: 10

Prerequisite: Spanish I

Elective

Year

Spanish II will increase the students' listening, reading, and writing skills as well as expand the grammatical understanding of the language. It involves more advanced verb-study (including learning the past tense) and cultural information will be provided to further enhance the student's understanding of Hispanic culture.

Spanish III/IV:

Class size: 25

Grade Level: 11-12

Credit: 10

Prerequisite: Spanish I, II

Elective

Year

Spanish III/IV will increase the students' listening, reading, and writing skills as well as expand the grammatical understanding of the language. It involves more advanced verb-study and cultural information will be provided to further enhance the student's understanding of Hispanic culture.

MATHEMATICS

Algebra I:

Class size: 20

Grade Level: 9

Credit: 10

Prerequisite: Pre-Algebra (8th grade)

Required

Year

This course continues algebra concepts as well as beginning the study of geometry and probability. It is designed to teach students to be successful mathematical problem solvers.

Geometry:

Class size: 20

Grade Level: 10

Credit: 10

Prerequisite: Algebra I

Required

Year

Students will develop their ability to construct formal, logical arguments and proofs in geometric settings and problems.

Algebra II

Class size: 20

Grade Level: 10-12

Credit: 10

Pre-requisite: Algebra I, Geometry

Required/Elective

Year

This discipline complements and expands the mathematical content and concepts of Algebra I and geometry. Students who master Algebra II will gain experience with algebraic solutions of problems in various content areas, including the solution of systems of quadratic equations, logarithmic and exponential functions, the binomial theorem, and the complex number system.

Pre-Calculus:

Class size: 20

Grade Level: 12

Credit: 10

Prerequisite: Algebra II

Elective

Year

Includes review of the topics from Algebra II and analytical geometry. Major areas of study include ex-

ponential decay and growth, translating functions, piecewise functions, polynomial equations, logarithms, and trigonometric functions. This class does count as a 4th year of math above Algebra II for college acceptance.

Consumer Math:

Grade Level: 11-12

Credit: 5

Class size: 20

Financial Literacy Req.

Semester

Prerequisite: None

Topics include personal finance such as income, record keeping, checkbooks, savings and charge accounts, budgets, insurances and investments, as well as business math as sales, marketing, production and services. (Not counted as a high school math credit for UNL and other similar four year colleges)

Applied Math I

Grade Level: 11-12

Credit: 10

Class size: 20

Elective

Year

Prerequisite: Algebra I

This course includes topics in algebra and geometry, charts and graphs, spread sheets and graphs, area, volume, and coordinate systems. This class helps prepare those not in Algebra II for the ACT test. (Not counted as a high school math credit for UNL and other similar four year colleges)

College Algebra (MATH 1150)

Grade Level: 11-12

Credit: 5 (3)

Class size: 20

Elective

Semester

Prerequisite: Algebra II

This course is the study of relations, functions and their graphs, equations and inequalities, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities. This is a dual credit course through Southeast Community College, taught in-person by Mead Public Schools' staff.

Applied Statistics (MATH 2170)

Grade Level: 11-12

Credit: 5 (3)

Class size: 20

Elective

Semester

Prerequisite: Algebra I/Geometry

The course is an introduction to basic probability and statistical methods that are used in a wide variety of disciplines. Topics include descriptive statistics, probability foundations, probability distributions, sampling distributions, methods of statistical inference, and bivariate relationships. This is a dual credit course through Southeast Community College, taught in-person by Mead Public Schools' staff.

MUSIC

Band:

Grade Level: 7-12

Credit: 10

Class size: 50

Elective

Year

Prerequisite: Participation in 5/6th Band, 2 years of private lessons, resulting in the completion of two levels of method books; or passing a playing skills test.

Band is offered as a performing instrumental music group. Marching band may perform in the fall. Sophomores, Juniors, and Seniors will have the opportunity to try out for All-State Band, as well as other honor bands. Small ensembles and soloists can perform for contests, and some concerts. Students will also perform in the Fall Concert, Christmas Concert, Pops Concert, Spring Concert, Graduation, Pep Band, ECNC Senior High Honor Band (selected students), and the District Music Contest.

Chorus:

Grade Level: 9-12

Credit: 10

Class size: 50

Elective

Year

Prerequisite: None

Chorus is offered as a performing vocal music group. Sophomores, Juniors, and Seniors will have the opportunity to try out for All-State Choir, as well as other honor choirs. Small ensembles and soloists can perform for contests, and some concerts. Students will also perform in the Fall Concert, Christmas Concert, Pops Concert, Spring Concert, Graduation, ECNC Senior High Honor Choir (selected students), and the District Music Contest.

PHYSICAL EDUCATION/HEALTH

Advanced Physical Education:

Grade Level: 10-12

Credit: 5

Class size: 30

Elective

Semester

Prerequisite: PE 9

This course is designed so that all students regardless of ability will enjoy a fun and positive atmosphere learning and playing activities ranging from weight lifting, volleyball, badminton, table tennis, pickleball, basketball and other group activities.

<u>Health:</u>	Grade Level: 9	Credit: 5
Class size: 30	Required	Semester
Prerequisite: None		

Health is a required course that focuses on the health of individuals both physically, mentally, socially, and emotionally. Major unit topics include stress management, reproduction, physical fitness, nutrition, drugs, and STD's.

**In compliance with Title I requirements, this notification is to inform students and parents that this course will be taught by a teacher that will be teaching out of their area of endorsement for the duration of the course.*

<u>Ninth Grade Physical Education:</u>	Grade Level: 9	Credit: 5
Class size: 30	Required	Semester
Prerequisite: None		
This course is designed so that all students regardless of ability will enjoy a fun and positive atmosphere learning and playing activities ranging from weight lifting, volleyball, badminton, table tennis, softball, pickleball and other group activities.		

<u>Weights:</u>	Grade Level: 10-12	Credit: 10
Class size: 24	Elective	Year
Prerequisite: None		

This course will stress weight training and other types of conditioning. The emphasis will be on weight training for athletic improvement. Stretching, rope jumping, running, plyometric activities, and other types of physical activity will be included in the course. Students who wish to take this course for a second year for credit must have teacher approval before being allowed to enroll.

Biology:	Grade Level: 10	Credit: 10
Class size: 25	Required	Year
Prerequisite: Physical Science		
Biology is a general course that studies the unique properties of living organisms and the diverse variety of life on the earth. Subject matter includes: Human and cellular biology, classification, heredity, microbiology, botany, zoology, anatomy, ecology, physiology, and molecular biology. <i>*In compliance with Title I requirements, this notification is to inform students and parents that this course will be taught by a teacher that will be teaching out of their area of endorsement for the duration of the course.</i>		

<u>Chemistry:</u>	Grade Level: 11-12	Credit: 5/10
Class size: 15	Elective	Semester/Year
Prerequisite: Physical Science/Biology		
Chemistry is the study of the properties of matter. Topics studied include scientific measurement, phases of matter, classification of matter, atomic structure, atomic models, periodic table of elements, chemical bonding, chemical nomenclature and formulas, chemical equations and reactions, stoichiometry, solution chemistry, gas laws, thermodynamics, and nuclear chemistry.		

<u>Physical Science:</u>	Grade Level: 9	Credit: 10
Class size: 25	Required	Year
Prerequisite: None		
Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. The course includes an introduction to the fundamental concepts of the physical world as it relates to concepts from chemistry, physics, earth and space science disciplines. Topics that will be studied include: fundamental science skills such as graphing, scientific measurement, matter, the periodic table, elements, mixtures, compounds, chemical reactions, the solar system, stars, nuclear chemistry, motion, and Newton's laws, along with mathematical reasoning and basic laboratory practices.		

<u>Physics:</u>	Grade Level: 11-12	Credit: 5/10
Class size: 15	Elective	Semester/Year
Prerequisite: Physical Science and Biology		
Physics is the study of physical phenomena; nature's laws and how those laws can be used to understand the universe in which we live. Topics studied include scientific observation and measurement, mechanics including: kinematics, forces and Newton's laws, projectile motion, inclined planes, circular motion and gravitation, momentum and collisions, work and energy, electricity, and light.		

<u>Anatomy:</u>	Grade Level: 11-12	Credit: 5
Class size: 15	Elective	Semester
Prerequisite: Physical Science/Biology		

Anatomy is a course that will enable students to develop a basic understanding of the relationships between the structures and functions of the human body. In this course we will be learning about all of the systems in the human body and how they function.

**In compliance with Title I requirements, this notification is to inform students and parents that this course will be taught by a teacher that will be teaching out of their area of endorsement for the duration of the course.*

<u>Astronomy:</u>	Grade Level: 11-12	Credit: 10
Class size: 15	Elective	Year
Prerequisite: Physical Science/Biology Every other year course		

Astronomy is the study of the universe. Topics covered will include constellations, stars, planets, and their moons, formation of the solar system and the universe, and space exploration.

SOCIAL SCIENCES

<u>American Government:</u>	Grade Level: 12	Credit: 10
Class size: 24	Required	Year
Prerequisite: None		

Government is designed to be taken by students in the 12th grade year. The class outlines the legal, historical, and philosophical foundations of the American system along with different government and economic systems of the world. This course covers the foundations of democracy and government at the federal, state, and local levels. In addition, the course outlines basic economic and personal finance concepts, and what it means to be a responsible citizen within our society.

<u>American History:</u>	Grade Level: 11	Credit: 10
Class size: 24	Required	Year
Prerequisite: None		

This class covers American History from the beginning of the Civil War to present-day current events.

**In compliance with Title I requirements, this notification is to inform students and parents that this course will be taught by a teacher that will be teaching out of their area of endorsement for the duration of the course.*

<u>World Geography- East Hemisphere:</u>	Grade Level: 9-12	Credit: 5
Class size: 23	Elective	Semester
Prerequisite: None		

World Geography- East Hemisphere is designed to introduce students to the Five Geographic themes of: Location, Place, Human/Environment Interaction, Movement, and Region as it pertains to Asia, Africa, Oceania, Australia, and Antarctica.

<u>World Geography- West Hemisphere:</u>	Grade Level: 9-12	Credit: 5
Class size: 24	Elective	Semester
Prerequisite: None		

World Geography Western Hemisphere is designed to introduce students to the Five Geographic themes of: Location, Place, Human/Environment Interaction, Movement, and Region as it pertains to Europe, North and South America.

<u>World History:</u>	Grade Level: 9-12	Credit: 10
Class size: 24	Elective	Year
Prerequisite: None		

An overview of the major civilizations and events from prehistoric times to the present. Each civilization's political, social, economic, and cultural developments will also be discussed throughout the course.

