Home of the Pirates

Course Catalog 2010-11

Genoa-Hugo High School

Online Registration available at
http://ghpirates.wordpress.com

Core Class Offerings
Freshman Level

FRESHMEN	
Req. Core Classes	
English	x
Math	x
Physical Science	x
Geography	x
Computer Apps/Keyboarding	x
Electives: Choose 2	
Intro. To Ag	
Band	
Choir	
P.E.	
Botany (sem)	
Geology (sem)	
Environmental Science (sem)	
Modern History (sem)	

Notes

Online Pre-registration at
http://ghpirates.wordpress.org.
Option 1: Complete form online, save as a file, and attach as an email to Mrs. V at
rvermillion@ghpirates.org

Option 2: Complete form online, print, and turn in to Mrs. V.

Course Descriptions

Advanced Agriculture Techniques: This is a capstone, self-directed course for seniors based upon specific pathways and interests. This course requires a year-long project of the student's design (in cooperation with advisor) relating to agriculture, and demonstrating skills in business, communications, design, and record-keeping. A substantial final project will be completed at the end of the year in addition to a senior paper. This course is highly specialized and individualized. Examples of senior projects could include: designing publications for ag related organizations, designing and incorporating leadership training, designing and implementing elementary agriculture education programming, an advanced agriculture shop project, greenhouse management, or a business plan. Open to seniors by instructor approval.

Computer Applications/Keyboarding: These required business classes will examine various business practices and develop necessary skills such as typing, computer applications (spreadsheets, PowerPoint presentations, and other documents) and the effective use of technology.

Publications: In addition to the design, layout, and composition of the yearbook, this year-long class will also include writing, editing and photographing the school online newspaper, *The Buccaneer*, and other journalism assignments ranging from composition of news releases to local media and radio releases.

Advanced Business Techniques: This is a capstone, self-directed course for seniors based upon specific pathways and interests. This course requires a year-long project of the student's design (in cooperation with advisor) relating to business, and demonstrating skills in business, communications, design, and record-keeping. A substantial final project will be completed at the end of the year in addition to a senior paper. This course is highly specialized and individualized. Examples of senior projects could include: designing publications for business related organizations, designing and incorporating leadership training, designing and implementing elementary career education programming, the design of a small business, or a business plan. Open to seniors by instructor approval.

Physical Education: Students will gain an understanding of skills for and the benefits of physical fitness. Students will gain an understanding of skills and rules needed to participate in team and individual sports. Students will gain an understanding of skills for and the benefits of leading an active lifestyle. Students will participate in a variety of lifetime activities.

Instrumental Music Studies

Core Class Offerings
Sophomore Level

SOPHOMORES	
Req. Core Classes	
English	X
Math	X
Biology 1	X
World History	X
Health (sem)	X
Electives: Choose 2.5	
Intro. To Ag	
Welding (Fall sem)	
Livestock Prod. (Fall sem)	
Ag. Construction (Spring sem)	
Publications/Ag. Comm.	
Ag. Business/Accounting (sem)	
Botany (sem)	
Geology (sem)	
Environmental Science (sem)	
Modern History (sem)	
Band	
Choir	
Physical Ed.	
Basic Drawing	

JUNIORS	
Req. Core Classes	
English	**X**
Math	**X**
US History	**X**
Science (Choose one year)	
Biology 2(also elective)	
Botany (sem)	
Geology (sem)	
Environmental Science (sem)	
Chemistry (also elective)	
Electives (3)	
Welding (Fall sem)	
Livestock Prod. (Fall sem)	
Ag. Construction (Spring sem)	
Publications/Ag. Comm.	
Ag. Business/Accounting (sem)	
Botany (sem)	
Geology (sem)	
Environmental Science (sem)	
Modern History (sem)	
Band	
Choir	
Physical Ed.	
Basic Drawing	
Independent Study	
MCC	
COL	
Vnet Spanish	
COS	
Work Study	

Course Descriptions

classman. This course will introduce FFA, record-keeping, the SAE project, the FFA creed, Parliamentary Procedure, the history of agriculture and FFA, and extensive shop safety. Topics will also include crop science, food science, animal science, soil science, ag business, ag communications, welding, ag carpentry, and budgeting.

Livestock Production Science: Topics covered include, but are not limited to, livestock reproduction, embryo transfer, artificial insemination, livestock selection, ruminant nutrition, genetics, feed formulation, livestock handling, livestock marketing, and record keeping. FFA and SAE also incorporated.

Ag Business: This class is designed to compliment Animal Science, Soils/Crop Science and Horticulture. This class will provide the opportunity to students to observe and study agricultural markets. The students will develop their skills in areas including the debate and discussion of agricultural issues, topics and legislation, financial management, business structures, agricultural sales and services, futures contracts, stock exchanges, product development, computerized farm records, budgeting, cash flow income statements, and marketing. Includes basic accounting principles, concepts and laws.

Ag Communication: This class will build students' writing, speaking and communications skills through the exploration of the agriculture industry. Topics will include media of all forms and journalism. Students will study the means and methods of communication in the digital age as well as advertising/marketing, print media, and digital communication.

Welding I and II: Students in this program spend the majority of time in the shop learning various welding skills. Students will progress at their own pace while learning the following welding procedures: Shielded Metal Arc (Stick); Gas Metal Arc (MIG); Gas Tungsten Arc (TIG);Oxy-Acetylene Welding/Cutting; Plasma cutting. Blueprint reading and math are also included in the course.

Ag Construction: This course will cover project design and construction, tool use, equipment maintenance, farm carpentry, hydraulic systems and irrigation systems. Students will also develop record-keeping skills, budgeting skills and inventory management skills.

Course Descriptions

quences of the Civil War and explore the life of immigrants who shaped this Nation. This class will open your eyes to the many stories of America.

World History: This year long class discusses culture and conflict from Europe, Asia, the Americas, and Africa. Explore the ancient cultures of Egypt, Greece, and Rome. Experience the darkness of the Dark Ages and the renewal of the Renaissance. See the world in a different light.

Geography: Travel the world all year long and learn about the rich cultures, traditions, and physical landscapes of regions in the Americas, Africa, Asia, Europe, and Australia.

Modern History: This semester course will dive into the topics of post World War II, discovering the causes of the Cold War, the revolution of the Civil Rights Movement, and the Ethnic Wars of Africa and Europe to name a few.

Psychology: This semester course discusses the connection between the brain, emotions, and body. This class discusses biological foundations, memory and learning, psychological disorders, developmental psychology, and social psychology in relation to everyday living.

US Government: This semester course will define and analyze the Constitution of the United States, Declaration of Independence, the Three Branches of Government, and the meaning of citizenship.

Economics: This semester course identifies key elements of supply and demand, personal finance, and stock market basics.

World Affairs: This semester course will highlight the current events of Africa, Asia, Europe, the Americas, and the Middle East. This class will look at the cultural and political climate of these regions all while learning about its history and present day circumstances.

Sociology: This semester course discovers the basis of human relationships and human interactions. This class discusses topics like culture, family, peers, socialization, deviance, and group interaction. If you like to talk about why people act the way they do, this class is for you.

Introduction to Agriculture: 9th grade: This year-long, introductory class for freshmen will touch on the basic concepts of each pathway, serving as a survey preparing students to determine the pathway of agriculture that most interests them and will drive their studies as an upper-

SENIORS	
Req. Core Classes	
English	**X**
Math	**X**
Economics/US Government	**X**
Electives	
Welding (Fall sem)	
Livestock Prod. (Fall sem)	
Ag. Construction (Spring sem)	
Publications/Ag. Comm.	
Ag. Business/Accounting	
Adv. Ag. Techniques	
Adv. Business Techniques	
Botany (sem)	
Geology (sem)	
Environmental Science (sem)	
Biology 2	
Chemistry	
Modern History (sem)	
Band	
Choir	
Physical Ed.	
Basic Drawing	
Independent Study	
MCC	
COL	
Vnet Spanish II	
COS	
Work Study	

MCC Online Courses

Accounting:	ACC101	Fundamentals of Accounting
	ACC115	Payroll Accounting
	ACC121	Accounting Principles I
	ACC125	Computerized Accounting
	ACC131	Income Tax
Art:	ART 110	Art Appreciation
	ART 111	Art History I
Music:	MUS 100	Fundamentals of Music
	MUS 120	Music Appreciation
	MUS 121	Music History I
Business:	BUS 115	Introduction to Business
	BUS120	Introduction to E-Commerce
	MAR 111	Principles of Sales
Computers:	CIS115	Intro. to Comp. Info. Systems
	CIS118	Intro PC Applications
	CIS145	Complete PC Database
	CIS155	PC Spreadsheet Concepts
	CNG101	Intro to Networking
	CNG102	Local Area Networks
	CNG104	Intro to TCP/IP
	CSC116	Logic and Program Design
	CSC150	Visual Basic Programming
	CSC154	Introduction to MS Visual Basic
	CSC160	Computer Science I
Criminal Justice:	CRJ110	Intro to Criminal Justice
	CRJ111	Substantive Criminal Law
	CRJ112	Procedural Criminal Law
	CRJ125	Law Enforcement Operations
	CRJ135	Judicial Function Devel.
	CRJ145	Correctional Process

Course Descriptions

Right Triangle Trigonometry
Chords, Secants and Tangents
Algebra 2: During this course, your student will learn (but not necessarily in this order):
Equations and Inequalities
Linear Relations and Functions
Matrices
Quadratic Functions and Polynomial Functions
Radical Equations
Exponential and Logarithmic Relations
Conic Sections
Sequences, Probability and Statistics
Trigonometric Functions, Graphs and Identities
Trigonometry: During this course, your student will learn (but not necessarily in this order):
Radian and Degree Measure, Right Triangle Trig.
Inverse Trig. Functions, Graphs of Trig. Functions
Fundamental Identities and Formulas
Law of Sines and Cosines, Vectors
Complex Numbers
Exponential and Logartihmic Funcitons
Conic Sections, Polar Coordinates
Calculus: During this course, your student will learn (but not necessarily in this order):
Basic concepts the Cartesian Plane
Functions
Limits
Differentiation
Applications of Differentiation
Integration
Logarithmic, Exponential and other Transcendental Functions
Applications of Integration

United States History: In this year-long course, discover the rich culture and heritage of the USA dating from the time of Christopher Columbus to the atrocities of World War II. Understand the causes and conse-

Course Descriptions

Environment: Environmental science is the study of interactions among physical, chemical, and biological components of the environment. This course is recommended for grades nine through twelve. Credit: One semester, elective. Colorado state science standard number two: Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.

Health: Health is taught from a wellness perspective, focusing on the state of well-being according to the seven National Health Standards. This course is recommended for tenth grade. Credit: One semester, required.

Algebra 1: During this course, your student will learn (but not necessarily in this order):
Equations and Functions
Rational Numbers & Number Sense
Linear Equations and Graphing those equations
Inequalities and Graphing those equations
Ratio, Percent and Proportions
Probability and Statistics
Quadratic Equations, Functions, Exponential Functions and Graphing
Right Triangles and Radical Expressions
Polynomials

Geometry: During this course, your student will learn (but not necessarily in this order):
Basic Constructions of Geometric Shapes
Investigating Geometric Figures
Transformations; Translations, Reflections, Rotations, Symmetry, Dilations and Tessellations
Triangle Relationships
Areas of Planar Shapes
Volumes of 3-Dimensional Shapes
Inductive vs. Deductive Reasoning and Parallel Lines
Proofs
Quadrilaterals
Similarity

MCC Online Courses con't

Medical:	BIO106 Basic Anatomy and Physiology
	HPR178 Seminar: Medical Terminology
	HWE100 Human Nutrition
	NUR101 Pharmacology Calculations
Law:	PAR 115 Intro to Law
	PAR 116 Torts
	PAR 117 Family Law
	PAR 118 Contracts
	PAR 125 Property Law
	PAR 127 Legal Ethics
Astronomy:	AST101 Astronomy I
	AST102 Astronomy II

Colorado Online Courses

Arts:	Art101	Creative Drawing
	Art103	Digital Photography: Creating Images with Impact!
	Art104	Drawing: Challenges and Solutions
Music:	Mus101	Music Appreciation
Business:	Bus100	Career Exploration
	Bus101	Introduction to Accounting
	Bus102	Personal Finance
	Bus103	Applied Concepts in Finance
	Bus104	Economics
	Bus105	International Business (Bus105)*
Languages	WLC101	Mandarin (Chinese) I
	WLF101	French I
	WLL101	Latin I

Colorado Online Courses con't

Science	Sci104	Future Issues: Biotechnology
	Sci105	Astronomy
	Sci107	Anatomy and Physiology
Law	SS107	Law & Order: Introduction to Legal Studies
	SS115	Criminology: Inside the Criminal Mind
Computers	Tech100	Web Design
	Tech101	C++ Programming
	Tech102	Java Programming
	Tech103	Computer Animation: The Power of Flash
	Tech104	3D Modeling: Building in Three Dimensions

Required Courses for Graduation

Regular Diploma Requirements					
		Freshman	Sophomore	Junior	Senior
English	4	English 1	English 2	English 3	English 4
Social Studies	4	Geography	World Hist.	Amer. Hist.	Amer. Govt./Econ
Math	3	Basic Math Algebra 1	Geometry	Algebra 2	
Science	3	Physical Science	Biology 1	Botany Biology 2 Geology Enviro. Chemistry	
Physical Education	1	Physical Education			
Keyboarding	1	Keyboarding			
Computer Apps.	1	Comp. Apps.			
Health	0.5	Health			
Elective Courses	8.5				
Total	26				

Course Descriptions

cluding their structure, function, growth, and distribution. This course serves as a prerequisite to Biology II and is recommended for the tenth grade year. Credit: One year, required. Colorado state science standard number two: Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.

Biology II: Biology II introduces basic human anatomy and physiology, and genetics. Biology I is a prerequisite. This course is recommended for grades eleven or twelve. Credit: One year, elective. Colorado state science standard number two: Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.

Chemistry: Chemistry is the science of the composition, structure, properties, and reactions of matter. Physical science is a requirement, and this course is recommended for grades eleven or twelve. Credit: One year, elective. Colorado state science standard number one: Students know and understand common properties, form, and changes in matter and energy.

Physics: Physics is the science of matter and energy and of interactions between the two. Physical science is a requirement, and this course is recommended for grades eleven or twelve. Credit: One year, elective. Colorado state science standard number one: Students know and understand common properties, form, and changes in matter and energy.

Geology: Geology is the study of the origin, history, and structure of the earth. This course is recommended for grades ten through twelve. Credit: One semester, elective. Colorado state science standard number three: Students know and understand the processes and interactions of Earth's systems and the structure and dynamics of Earth and other objects in space.

Botany: Botany is the science of plants. This course introduces the structure and function of plant components, along with xeriscaping principles. This course is recommended for grades ten through twelve. Credit: One semester, elective. Colorado state science standard number two: Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.

Course Descriptions

English 1 is the introductory course for high school English. Students build on the basics of the writing process taught in Middle School including constructing thesis statements and writing essays. They also study grammar rules and vocabulary. In terms of literature, students typically look closely at each author's style, theme, and plot. Finally students learn about and practice research and public speaking skills. The reading material includes oral tradition as the source of Western literary tradition as well as the major literary genres: the short story, poetry, drama, nonfiction and the novel.

English 2 continues to build on the major principles taught in English 1. Reading and comprehension strategies cover the folk tradition (folk tales, myths, legends), poetry, nonfiction, adventure writing (novel) and modern drama related to the themes of diversity, identity, friendship, struggle, visions of the future. Writing covers a basic survey and further practice of the writing process, emotional and critical responses to literature; grammar, usage, mechanics, spelling and vocabulary development; critical thinking strategies; study and research; organizational strategies, as well as test-taking skills for standardized tests

English 3 continues to build on the major principles taught in English 2. Students focus on expanding their formal and informal forms of written expression as well as working through each step of the writing process from pre-writing to final drafts. Students continue to learn about grammar and expand vocabulary. In literature, students continue to focus on increasing comprehension while recognizing theme and plot. They also examine each author's use of literary devices. Students are expected to present information orally and learn more about correct research techniques. Reading focuses on the folk tradition; lyric poetry, dramatic & narrative poetry; short story; Shakespearean drama; nonfiction; novels which may include, but are not limited to fantasy and science fiction, mystery/detective literature and a contemporary novel. Reading themes include cultures in conflict; mothers and fathers and lessons learned.

English 4 is a survey of American literature from the Pre-Colonial Era to the present, which includes but is not limited to short stories, oral tradition, poetry, novels, and drama. Nonfiction selections may include letters, autobiography, biography, essays, speeches, pamphlets and

Course Descriptions

historical documents. Students review basic literary types and techniques as well as practice reading skills for test taking, specifically the ACT. Students continue to work on formal and informal forms of written expression in a variety of formats and are expected to successfully complete literary analyses of various forms of literature as well as successfully complete a research paper this year along with numerous oral presentations.

English 5 includes a survey of British literature from the Anglo-Saxon Era to the present as well as a review of genres: oral tradition, poetry, fiction, drama and nonfiction. A strong focus will be on formal written expression through essays and literary analyses. Students are also expected to complete a more lengthy research paper this year along with numerous oral presentations.

English 6 focuses on World Literature from its oral roots to the present, and may be taken in place of English 5. This course is "designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone." Writing for this course incorporates writing about literature as well as using the reading process to improve the writing process. This will include focus on Meaning and Purpose, Strategy and Structure and Style and Language in addition to creative writing
All course work will include further study and application of principles of grammar, usage, mechanics, spelling and vocabulary development as well as critical thinking strategies.

Physical Science: Physical science provides a foundation for chemistry and physics, serves as a prerequisite to these courses, and is recommended for the ninth grade year. This course analyzes the nature and properties of energy and nonliving matter. Credit: One year, required. Colorado state science standard number one: Students know and understand common properties, form, and changes in matter and energy.

Biology I: Biology I is the science of life and of living organisms, in-