

LAKEWOOD HIGH SCHOOL

COURSE GUIDE



2011-2012

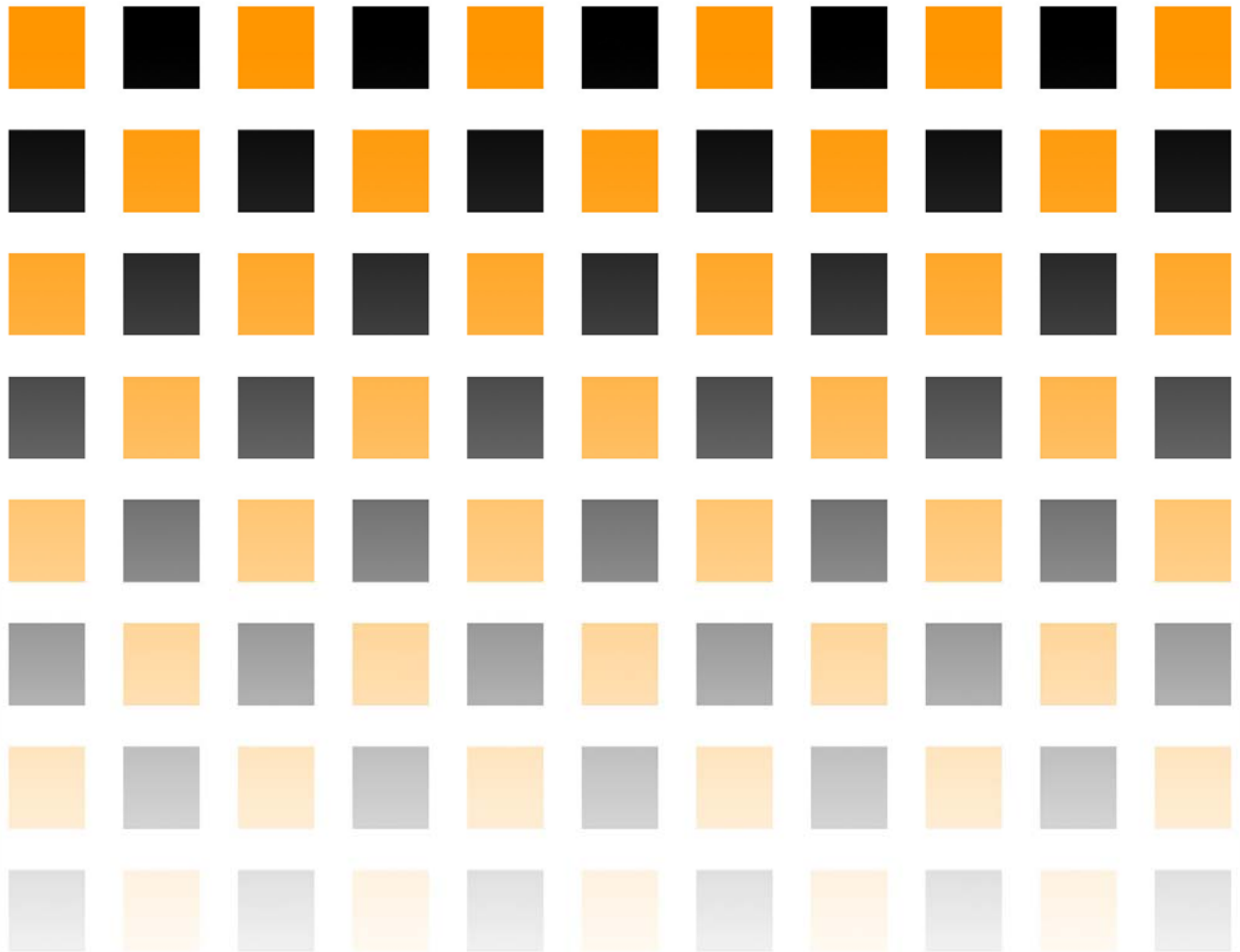


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Administration

Principal, Ron Castagna
Asst. Principal, Mrs. Deb Alexandridis **A-C**
Asst. Principal, Mr. Bruce West **D-Hn**
Asst. Principal, Mrs. Anna Allen **Ho-Md**
Asst. Principal, Mrs. Lisa Ritchey **Me-Sa**
Asst. Principal, Mr. Tim Walker **Sb-Z**

Counseling

Mrs. Shauna Stockmar **A-CI**
Ms. Kimberly Morrow **Cm-Ge**
Mrs. Jill Mark **Gf-K**
Mr. Geoffrey LaPlant **L-Ne**
Mrs. Susan Hunt **Nf-Sc**
Mrs. Alexis Park **Sd-Z**

Lakewood High School Graduation Requirements

Classes of	2012	2013 & Beyond
Language Arts	4.0 Credits	4.0 Credits
Social Studies	3.0 Credits	3.5 Credits
Mathematics	2.0 Credits	3.0 Credits
Science	2.0 Credits	3.0 Credits
Practical Arts	.5 Credit	.5 Credit
Physical Education	.5 Credit	.5 Credit
World Language		2.0 Credits
Electives	10 Credits	8.5 Credits
TOTAL	22 Credits	24 Credits

Registration Policies

ENROLLMENT REQUIREMENTS

Students are required to be enrolled in six classes each semester as freshmen and sophomores and five classes each semester as juniors and seniors. Students may take an extra class if it is for Student Senate, a music, publications, or speech class. All students will be enrolled in Tiger Time which meets each day.

SCHEDULE CHANGES

Schedule changes will be granted only with the approval of a counselor or an assistant principal. Students should choose their classes wisely during registration because changes are often not possible at the beginning of a semester. Students must follow their original schedules until schedule changes have been granted. Changes will only be made for incorrect level, prior semester failure, or class conflict. Changes will not be made for teacher/period preference.

ADDING/DROPPING CLASSES

All class additions must occur no later than the end of the first week of the semester. Classes dropped during weeks 3-9 will result in a grade of WF (Withdraw Fail) or WP (Withdraw Pass) as indicated by the teacher. Classes dropped after week 9 will result in a semester grade of "F" and will affect the cumulative GPA. See your counselor for the necessary forms.

GRADES AND CREDIT

All classes at LHS are worth .5 credit per semester unless otherwise noted. Tiger Time is worth .23 credit per semester. Progress report grades are completed every six (6) weeks. Only semester grades are recorded on transcripts.

MAKEUP COURSE OPPORTUNITIES

Students are not generally permitted to retake failed courses. Students who fail classes need to make appointments with their counselors to explore credit retrieval options. Students may not be able to continue the required sequence of core classes unless they show an effort to make up failed classes in night school, summer school, online, or through correspondence.

COURSE FEES

Some *elective* courses have extra fees to cover expenses. Fees are listed in the course descriptions. The money for classes with fees will be collected at the beginning of the school year.

WEIGHTED GRADES

District Policy states that *core* Honors courses, AP and IB courses will be weighted on a 5.0 scale. All other courses are graded on a 4.0 scale.

Higher Education Admission Requirements

In accordance with a policy passed by the Colorado Commission on Higher Education (CCHE), students who are admitted to any of Colorado's public four-year colleges and universities will need to have completed the following courses that make up a solid pre-collegiate curriculum:

- Four years of English
- Four years of mathematics at the level of Algebra I and higher
- Three years of natural science (two of which must be laboratory sciences)
- Three years of social studies (one of which must be U.S. History or World Civilizations)
- Two years of academic electives
- One year of a World Language

Prospective Collegiate Student Athletes

Many college athletic programs are regulated by the National Collegiate Athletic Association (NCAA), an organization founded in 1906 that has established rules on eligibility, recruiting and financial aid. If you are planning to enroll in college as a freshman wishing to participate in Division I or II athletics, you must be certified by the NCAA Initial-Eligibility Clearinghouse. The Clearinghouse ensures consistent application of NCAA Initial-Eligibility requirements for prospective student athletes at all member institutions.

Eligibility

- Registration must be completed by going online to www.ncaaclearinghouse.net.
 - A \$60 registration fee payable with a credit card will be needed at the time of registration.
 - Two copies of the printed form must be given to the counselor (Form 1 and 2 signed).
 - Check the approved core course list (student's responsibility; changes yearly)
 - Coach's release form in Counseling Office
 - Division 1 and 2 require a minimum of 16 academic course units as follows:
 - 4 years of English
 - 3 years of Math (Alg. I or above)
 - 2 years of Science (1 year of lab science)
 - 2 years Social Studies
 - 1 additional year of English, Math, or Science
 - 4 years additional courses from list or second language
 - You must have a core-course GPA of 2.0 (based on a 4.0 scale) and a combined score on the SAT verbal and math sections or a sum score on the ACT based on the qualifier index scale which can be found on the NCAA website or by contacting 1-877-262-1492.
- * Computer science is no longer a core course.
indicates NCAA approved course.

Valedictorian Selection

Honors/Advanced Placement Program: Valedictorian will be decided by the highest *weighted* GPA.

International Baccalaureate Program: Valedictorian will be decided by the highest *unweighted* GPA.

College Opportunity Fund

The College Opportunity Trust Fund, created by the Colorado Legislature, provides a stipend to eligible undergraduate students who are Colorado residents for tuition purposes. The stipend pays a portion of your total in-state tuition when you attend a Colorado public institution or a participating private institution. Eligible undergraduate students must apply, be admitted and enroll at a participating institution. Both new and continuing students are eligible for the stipend. The stipend will assist with the first 145 credit hours of your undergraduate degree program at a Colorado college. Qualifying students may use the stipend for eligible undergraduate classes. The stipend is paid on a per credit hour basis to the institution at which the student is enrolled. The credit-hour amount will be set annually by the General Assembly. The application to apply for the stipend is currently available at www.collegeincolorado.org; click on "College Opportunity Fund." All Colorado residents should apply for the College Opportunity Fund in order to offset the entire cost of tuition at each college.

Warren Tech

13300 W. 2nd Place
Lakewood, CO 80228
303-982-8600
www.warrentech.org

The Career & Technical High School for Jeffco Public Schools

Warren *Tech*, the career and technical high school for Jeffco Schools, offers an active learning environment and is the springboard to a multitude of careers. Students interested in gaining a competitive edge in the job market or in preparing for higher education can enroll in a variety of programs. Students can earn high school credit in all courses and community college credit in some courses while attending the following programs located at Warren *Tech*.

Who May Attend

Grade Level: 16 years or older, juniors and seniors

Prerequisite: By application; see your counselor.

Semester/Year

Fee: varies

Credit: Usually 1.5 per semester; see Warren *Tech* Information Guide for details

All Warren *Tech* programs qualify as an "academic elective" under CCHE guidelines. Some programs carry *core academic credit*. See the Warren *Tech* website for current information.

How to Apply

If you are interested in applying to Warren *Tech*, you should speak to your counselor to get information on available programs. Then fill out an application, which is available in the Counseling Center.

Business/Computers/Technology

Business

Introductory Business – One Semester

Pre-requisites: None

Grades: 9, 10, 11, 12

Introductory Business is a course designed to provide students with essential knowledge of basic economics, types of businesses, career exploration, financial management, and roles of a consumer. Areas of business fundamentals covered include the Free Enterprise System, basic types of businesses, profit motive, how to plan a career, basic types of insurance, banking and financial services. This course will include an introduction to the stock market, and all students will participate in a real-time stock market game with \$100,000 of virtual money.

Course Code: 12051G05014

Fine Arts/CTE

Business Computer Applications – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

Business Computer Apps introduces computer concepts and components as well as application suite software and the Internet. Included are hands-on experiences with word processors, spreadsheets, databases, presentation software, operating environments, and other common applications packages.

Course Code: 1005G05012

Fine Arts/CTE

Fee: \$5.00

Business Computer Applications (ESL) – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

In Business Computer Applications, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Code: 1005G05010

Fine Arts/CTE

Fee: \$5.00

Business Computer Applications Advanced – One Semester

Pre-requisite: Business Computer Applications

Grade(s): 10, 11, 12

Computer Apps Adv continues with advanced computer concepts and components as well as application suite software and the Internet. Included are advanced word processing, databases, and spreadsheets. Students will learn to apply their Internet skills to develop an understanding of communications and information seeking. Multimedia applications will be explored to help facilitate student's success in advanced presentations and communications skills.

Course Code: 1005E05012

Fine Arts/CTE

Fee: \$5.00

Business/Office Careers – One Semester

Pre-requisite: None

Grade(s): 10, 11, 12

Business/Office Careers is designed to equip students with the technological and critical thinking tools to help explore different types of careers. Students will learn how to use self-assessments, plan for educational career needs, set goals, and use decision-making skills. The course will help students build a base of knowledge to adapt to the ever-changing future job market.

Course Code: 12001G05011

Fine Arts/CTE

Accounting – Full Year

Pre-requisite: None

Grade(s): 10, 11, 12

Accounting provides students with an in-depth look at business accounting systems. Students will complete the accounting cycle for a sole proprietorship. The accounting software will provide the students with realistic opportunities to apply their knowledge of accounting concepts and procedures. Students will also analyze cash control and banking activities. Students who complete one year of accounting with a grade of "B" or better may earn Red Rocks Community College credit for ACC 101: Fundamentals of Accounting. (3 credits)

Course Codes: 12104G05012/12104G05022

Fine Arts/CTE

Fee: \$5.00

Marketing-Principles – Full Year

Pre-requisite: None

Grade(s): 10, 11, 12

Marketing Principles is a fast paced class, which prepares students for the future through many real-life experiences and introduces students to marketing practices, principles, and related careers. The class content may include units of study in salesmanship, advertising, and promotion, financing, human relationships, merchandising, free enterprise, and career exploration. The college bound or career bound student will enhance their chance to succeed by understanding the role marketing plays in their life. Students may apply what they have learned in real business situations through DECA by attending local, state, and national conferences. This class addresses all seven marketing standards.

Course Codes: 12152G05014/12152G05024

Fine Arts/CTE

Marketing - Strategies – Full Year

Pre-requisite: Marketing-Principles

Grade(s): 11, 12

Marketing Strategies emphasizes the marketing concept, the marketing mix, marketing functions, and career exploration as they relate to marketing and other business careers. Students may become members of DECA, an organization for marketing students. Through DECA a student will have the opportunity to travel to marketing conferences, meet new people, and have fun while building confidence in the business world. Students may also receive OJE credit by working in DECA Retail Operations and/or jobs outside of school. This class addresses all seven marketing standards.

Course Codes: 12152G05034/12152G05044

Fine Arts/CTE

Marketing – Advanced – Full Year
Pre-requisite: Marketing - Strategies
Grade: 12

Marketing Adv is designed for students who wish to expand their knowledge and experience in the field of marketing. New course offerings will be introduced and/or disciplines previously taught expanded. Students may enhance their knowledge by doing projects using technology with marketing manuals, e-commerce, international marketing, etc. Students will be able to attend all DECA conferences and competitions. This class addresses all seven marketing standards.

Course Codes: 12152E05012/12152E05022
Fine Arts/CTE

Sports/Entertainment Marketing – One Semester
Pre-requisite: None
Grade: 11, 12

Sports and Entertainment Marketing introduces students to and helps them refine marketing and management functions and tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, and the sales or rental of supplies and equipment

Course Code: 12163G05011
Fine Arts/CTE

Workplace Experience (OJE) – One Semester
Pre-requisite: Enrolled in a Marketing Class
Grade(s): 11, 12

Any student enrolled in a marketing class may register for job credit. Students receive credit for maintaining a marketing related job throughout the semester. The marketing teachers will help students obtain employment and work with the students and their employers to develop the student's marketing skills.

Course Code: 22998G05012/22998G05022
Fine Arts/CTE

Sales-Workplace Experience (School Store) – One Semester
Pre-requisite: Marketing – Principles
Grade(s): 10, 11, 12

Any student enrolled in a marketing class has the opportunity to work in and/or manage the DECA store during and after school hours. Experiences include inventory procedures, cashiering, salesmanship, marketing, and management skills. *See your counselor to register.*

Course Codes:
Fine Arts/CTE

IB Business and Management – Full Year
Pre-requisite: Teacher approval
Grade(s): 11, 12

IB Business and Management courses prepare students to take the International Baccalaureate Business and Management exam at the Standard level. In keeping with Individual and Society courses, IB Business and Management promotes problem-solving by identifying the problem, selecting and interpreting data, applying appropriate analytical tools, and recommending solutions by evaluating their quantitative and qualitative implications. This course also equips students with knowledge and understanding of business terminology, concepts and principles. *Students will be expected to purchase a textbook for the course at an approximate cost of \$60.*

Course Codes: 12059H05014/12059H05024
Fine Arts/CTE

Computers

IT Essentials: PC HW & SW – One Semester
Pre-requisite: None
Grade(s): 9, 10, 11, 12

In IT Essentials: PC Hardware and Software courses provide students with in-depth exposure to computer hardware and operating systems. Course topics include the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Students learn to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, this course introduces students to networking and often prepares them for industry certification.

Course Code: 10254G05012
Fine Arts/CTE

Web Page Design I – One Semester
Pre-requisite: Computer Proficiency
Grade(s): 9, 10, 11, 12

Students will learn the history of the Internet, email principles, HTML coding, and FTP. Hand coding of HTML programming will be required to build a strong knowledge of how this language works before moving to WYSIWYG (what you see is what you get) program use. Students will learn to create solid navigation architecture, address a target audience as well as information planning and usability analysis. Beginning graphic design for the Web will address site look, feel and voice and creation of GIF and JPEG images. Multimedia MIDI sound files will also be introduced.

Course Code: 10201G05012
Fine Arts/CTE
Fee: \$5.00

Web Page Design II – One Semester
Pre-requisite: Web Page Design I
Grade(s): 9, 10, 11, 12

Students will continue building knowledge of HTML programming language and move to use of WYSIWYG programs. Java Script will be introduced to create mouseover and pop-up windows. Programming and usage forms and cascading style sheets will be introduced. Evaluation of web sites, ethical usage and copyright information will be discussed. Commercial graphic design software will be introduced to create graphics and animations. Flash, digital video and PDF will be included.

Course Code: 10201G05022
Fine Arts/CTE
Fee: \$5.00

Computer Programming I and II – One Semester Each
Pre-requisite: Algebra 1
Grade(s): 9, 10, 11, 12

In Computer Programming, students learn how to write computer programs using a variety of programming languages. Possible computer programming languages include: C++, C#, Java, Flash ActionScript 3, and Javascript. Students also learn how to use industry standard Interactive Development Environment (IDE) software such as Microsoft Visual Studio, Eclipse and Flash or Flex. Learning objectives include: types, variables and standard I/O, truth and branching, for loops, strings and arrays, standard template library, functions (methods in Java), references, pointers, classes, advanced classes and dynamic memory, inheritance and polymorphism.

Course Code: 10152G05012/10152G05022
Fine Arts/CTE

AP Computer Science A – Full Year
Pre-requisite: Computer Programming II or Teacher Approval
Grade(s): 10, 11, 12

In AP Computer Science A, students learn the advanced Java programming skills needed in preparation for the AP Computer Science exam. Because the designated outcomes for the AP Computer Science exam change yearly, consult the AP web site for more information. (<http://www.collegeboard.com/student/testing/ap/about.html>) *A text and study guide must be purchased at a cost of approximately \$72 and students will take the AP test at a cost of approximately \$90.*

Course Code: 10157H05012/10157H05022
Mathematics: Geometry or Higher
Fee: \$10.00

Technology

Industrial Arts – One Semester
Pre-requisite: None
Grade(s): 9, 10, 11, 12

In this course, students use a vast array of technologies available in the Technology Lab. This lab provides a unique hands-on environment that introduces the student to a variety of technology principles and concepts that include: lasers, robotics, animation, television production, Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), computer and physical simulations, Production lab (basic woodworking, metal working, and plastics) and more.

Course Code: 13003G05014
Fine Arts/CTE
Fee: \$25.00

Construction Comprehensive I and II – One Semester Each
Pre-requisite: Industrial Arts
Grade(s): 9, 10, 11, 12

Construction Comprehensive explores the expanding array of careers within the construction industry. Students will be exposed to the construction industry through job site tours, hands-on experience, and classroom activities. Math and science application will be established through the academic integration of jobsite technical skills and classroom theory. Further course work can be taken at Warren Tech. *Eligible juniors and seniors may receive RRCC credit for CON 110 or CON111 – 3 credits.*

Course Codes: 17002G05012/17002G05022
Fine Arts/CTE
Fee: \$25.00 a semester

Metalworking – One Semester
Pre-requisite: Industrial Arts
Grade(s): 9, 10, 11, 12

An introduction to metal and related manufacturing, students will have hands-on experience in sheet metal, welding, and casting. Students will complete teacher-selected projects.

Course Code: 13202G05014
Fine Arts/CTE
Fee: \$25.00

Audio/Visual Production – Full Year
Pre-requisite: None
Grade(s): 11, 12

Audio/Visual Production covers: digitizing, compression boards, inputting, outputting, and software integration as well as the principles of nonlinear editing. Final projects are output to digital tape. Students will analyze films from a variety of perspectives: drama, history, culture, and film technology. Students will work in pairs structuring and shooting original projects that they will edit. *Students will be given the opportunity to earn college credit at the Community College of Aurora (the Colorado Film School) for FVT 105-Video Production and FVT 160 – Digital Video Post Production if they complete this class with a grade of “B: or higher.*

Course Code: 11051G05014/11051G05024
Fine Arts/CTE
Fee: \$25.00

Drama—Stagecraft – One Semester
Pre-requisite: None
Grade(s): 9, 10, 11, 12

Drama—Stagecraft requires an active, creative student willing to work at a variety of tasks in a hands-on environment. Students will explore technical aspects of theater including lighting, sound, costumes, set design, and stage managing. Safety and responsibility are learned and are essential elements in this class.

Course Code: 05056G05012
Elective: Language Arts & Fine Arts/CTE

Drama—Stagecraft – Advanced – One Semester
Pre-requisite: Drama—Stagecraft
Grade(s): 9, 10, 11, 12

In Drama—Stagecraft Advanced, students will study the art of working in the backstage of a productions theater. Students will set and operate lights and sound for school productions. In addition, students will design & build sets for direct use in school productions. Safety and responsibility are essential elements in this course. This course offers older/more experienced students the opportunity to lead and train younger students as well. The ability to work independently and without constant supervision is critical to success in this class.

Course Codes: 05056E05012/05056E05022
Elective: Language Arts & Fine Arts/CTE

Drafting

Drafting-General (CADD Basic) – One Semester
Pre-requisite: None
Grade(s): 9, 10, 11, 12

Drafting General (Beginning CADD student level) serves all emphasis areas of engineering graphics. Course content includes fundamentals of layout, construction and dimensioning techniques as applied to two-dimensional drawings; systems and database management; and production of computer-generated drawings to ASME, AIA and other applicable specifications. The majority of the student s work will be done on the computer using the same Computer Assisted Drafting & Design (CADD) software that is used in the college *Eligible juniors and seniors may receive CCCS credit for CAD 110 - 6 credits.*

Course Code: 21102G05014
Fine Arts/CTE
Fee: \$20.00

Drafting-General Intermediate – One Semester
Pre-requisite: Drafting General
Grade(s): 9, 10, 11, 12

Drafting General Intermediate (Intermediate CADD student level) serves all areas of technical graphics. Course content includes producing two-dimensional working drawings using applications of geometric construction, intersection and development methods and animation techniques. Databases and file management systems are used in the learning experience to improve and increase production time of technical drawings. The majority of the student s work will be done on the computer using the same Computer Assisted Drafting & Design (CADD) software that is used in the college. *Eligible juniors and seniors may receive CCCS credit for CAD 119 - 3 credits.*

Course Code: 21102G05034
Fine Arts/CTE
Fee: \$20.00

Drafting-Architectural Intermediate – One Semester
Pre-requisite: Drafting – General Intermediate
Grade(s): 10, 11, 12

In Drafting Architectural Intermediate, two-dimensional concept CADD drawings that are created from given design parameters and appropriate specifications. Two-dimensional floor plans, cross sections and elevations are required. The majority of the student's work will be done on the computer using the same Computer Assisted Drafting & Design (CADD) software that is used in the college. *Eligible juniors and seniors may receive CCCS credit for CAD 121 - 3 credits.*

Course Code: 21103G05034
Fine Arts/CTE
Fee: \$20.00

Drafting-Tech/Mechanical Intermediate – One Semester
Pre-requisite: Drafting – General Intermediate
Grade(s): 10, 11, 12

The Drafting Tech/Mechanical Intermediate requires a set of documentation production drawings. Drawings are created per ANSI/ASME Y14.5M specifications. Application of two-dimensional, limits and fits, geometric dimensioning and tolerancing, dimensions and annotations are required. The majority of the student's work will be done on the computer using the same Computer Assisted Drafting & Design (CADD) software that is used in the college. *Eligible juniors and seniors may receive CCCS credit for CAD 121 - 3 credits.*

Course Code: 21106G05034
Fine Arts/CTE
Fee: \$20.00

Engineering

Engineer Design/Development - Project Lead the Way (IED) – Full Year
Pre-requisite: Drafting – None
Grade(s): 9, 10, 11, 12

In the Engineer Design/Development course, students will learn problem-solving skills using a design development process. Models of project solutions are created, analyzed, and communicated using solid modeling computer design software. This course, combined with traditional mathematics, and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. *Eligible juniors and seniors may receive college engineering credit from The Rochester Institute of Technology or the University of Colorado/Co. Springs – 3 credits.*

Course Code: 21007G05012/21007G05022
Fine Arts/CTE
Fee: \$20.00

Principles of Engineering – Project Lead the Way (POE) – Full Year
Pre-requisite: Drafting – Engineer Design/Development
Grade(s): 10, 11, 12

This is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. They will explore various engineering systems and manufacturing processes. They will also learn how engineers address concerns about the social and political consequences of technological change. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is all about and to answer the question, "Is a career in engineering or engineering technology for me?" *Eligible juniors and seniors may receive college engineering credit from The Rochester Institute of Technology or the University of Colorado/Co. Springs – 3 credits.*

Course Code: 21004G05012/21004G05022
Fine Arts/CTE
Fee: \$20.00

Civil Engineering & Architecture – Project Lead the Way (CEA) – Full Year
Pre-requisite: Drafting – Principles of Engineering
Grade(s): 11, 12

The major focus of the Civil Engineering and Architecture (CEA) course is a long-term project that involves the development of a local property site. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The course requires students to develop the property as a simulation that models the real-world experiences that civil engineers and architects experience when developing a property. Students learn to use state of the art 3-D design software to help them design and develop the property. Students work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture. The course is structured to enable all students to have a variety of experiences that will provide an overview of both fields. *Eligible juniors and seniors who complete this course may receive college engineering credit from the Rochester Institute of Technology or the University of Colorado/CO Springs (3 credits).*

Course Code: 21012G05012/21012G05022
Fine Arts/CTE
Fee: \$20.00

Sustainability Program of Study

Warren Tech @ LHS

(Some classes are taught at LHS; others are taught at WarrenTech. Check with your counselor to determine location.)

Sustainable Energy I (Intro to Energy Technologies) – Full Year
Pre-requisite: None
Grade(s): 11, 12

This course introduces the energy technologies in use today and those that are in the research stage as possible alternatives. The course presents technologies including active solar heating, passive solar heating, wind energy systems, biomass, photovoltaic, co-generation, low and high head hydro, hydrogen, geothermal, power towers and energy storage systems. This is a Career and Technical Education course. *Eligible juniors and seniors completing Sustainable Energy I and II may receive RRCC credit for ENY 101 – 3 credits.*

Course Code: 99813G05014/99813G05024
Science
Fee: \$50.00 per year

Sustainable Energy II (Building Energy Audit Techniques) – Full Year
Pre-requisite: Drafting – Sustainable Energy I; may be taken concurrently
Grade(s): 11, 12

This course teaches the principles of building energy audit techniques to include diagnostic software. During the course, the student will perform an energy audit. As a result of the audit, he/she will be able to recommend application of the most appropriate energy-saving treatments such as insulation, windows, appliances, and HVAC equipment. This is a Career and Technical Education course. *Eligible juniors and seniors completing Sustainable Energy I and II may receive RRCC credit for ENY 102 – 3 credits.*

Course Code: 99813G05034/99813G05044
Science
Fee: \$50.00 per year

Sustainable Living I – Full Year
Pre-requisite: None; May be taken concurrently with Sustainable Energy I or II
Grade(s): 11, 12

Students will gain experience with Greenhouse management and hydroponics systems. Students will have the opportunity to participate in a program such as the NASA HUNCH Program and/or a community garden. This class also focuses on production and adaptation of cultivated crops, principles affecting growth, development, management, and utilization. Students will also help manage food production and harvest of vegetables that will be served in the school cafeteria. *Students can gain RRCC credit for AGY 100- 3 credits.*

Course Code: 99828G05014/99828G05024
Science
Fee: \$50.00 per year

IB Design Technology (Introduction to Engineering Design)
Pre-requisite: Drafting – Participation in SE&D Program through Warren Tech
Grade(s): 11, 12

IB Design Technology teaches problem-solving skills using a design development process. Models of product solutions are created analyzed and communicated using solid modeling computer design software. In NYS, Circuit test the course is called Design and Drawing for Production and follows the syllabus developed by the State Education Department. This course will prepare students to take the International Baccalaureate IB Design Technology exam at the Standard level. *Eligible juniors and seniors who complete this course may receive college engineering credit from the Rochester Institute of Technology or the University of Colorado/CO Springs (3 credits).*

Course Code: 03206H05014/03206H05024
Science
Fee: \$50.00 per year

English Language Arts

English/ Language Arts 9 # – Full Year
Pre-requisite: None
Grade: 9

English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. The study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction.

Course Codes: 01001G05012/01001G05022
English Language Arts

English/ Language Arts 9 (ESL) # – Full Year
Pre-requisite: None
Grade: 9, 10

English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. The study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Codes: 01001G05010/01001G05020
English Language Arts

English/ Language Arts 9 Honors # – Full Year
Pre-requisite: Teacher approval
Grade: 9

English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. The study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. Students will practice skills necessary for future Advanced Placement (AP) classes. *Students may be required to pay for some supplies and activities.*

Course Codes: 01001H05012/01001H05022
English Language Arts

English/ Language Arts 10 # – Full Year
Pre-requisite: English Language Arts 9
Grade: 10

English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well through presentations. *Students may be required to pay for some supplies and activities.*

Course Codes: 01002G05012/01002G05022
English Language Arts

English/ Language Arts 10 (ESL) # – Full Year
Pre-requisite: English Language Arts 9
Grade: 10, 11, 12

English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well through presentations. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Codes: 01002G05010/01002G05020
English Language Arts

English/ Language Arts 10 Honors # – Full Year**Pre-requisite: Teacher approval****Grade: 10**

English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well through presentations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. This is an expanded curriculum version of English/Language Arts 10 with a specific focus on American Literature as an agent of change as well as a reflection of American culture. Students will practice skills necessary for future Advanced Placement (AP) classes. *Students may be required to pay for some supplies and activities.*

Course Codes: 01002H05012/01002H05022**English Language Arts****English/ Language Arts 11 # – Full Year****Pre-requisite: English Language Arts 10****Grade: 11**

English/Language Arts 11 develops students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, which students apply to compositions that utilize research and rhetoric. Students read nonfiction and literary works as a means to understand the world and to inform their writing. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. Participation in class dialogue and delivering presentations are expectations of this course. *Students may be required to pay for some supplies and activities.*

Course Codes: 01003G05012/01003G05022**English Language Arts****English/Language Arts 11 World Studies (Multicultural)****Pre-requisite: Teacher approval****Grade(s): 10, 11**

English/Language Arts World Studies 11 develops students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, which students apply to compositions that utilize research and rhetoric. Students read nonfiction and literary works as a means to understand the world and to inform their writing. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. Participation in class dialogue and delivering presentations are expectations of this course. This class is taken in conjunction with World History. Students in this course will focus on multicultural literature as a way to meet the CAP documents.

Course Code: 01003G05032/01003G05042**English Language Arts****AP English Language & Composition (AP Junior English) # – Full Year****Pre-requisite: Teacher approval****Grade: 11**

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Language and Composition courses expose students to prose written in a variety of periods, disciplines, and rhetorical contexts. These courses emphasize the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes. *A text must be purchased at a cost of approximately \$50. Students will take the AP test in May at a cost of around \$90.*

Course Codes: 01005H05012/01005H05022**English Language Arts****Fee: \$10.00****English/ Language Arts 12 – Literary Genre (Film Literature) # – Full Year****Pre-requisite: English Language Arts 11****Grade: 12**

English/Language Arts 12 blends composition, analytical reading, and literature into a cohesive whole. Students combine purposes, patterns, and genres in writing while incorporating research and rhetorical techniques. Collaboration and critical thinking lead to more complex presentations and products, with students honing their comprehension skills while reading more complicated literary and nonfiction texts. In this English/Language Arts 12 option, students will focus their attention primarily on the study of one literary genre; however, other genres of writing will also be studied. This course examines a variety of films to investigate their meanings and techniques to develop an awareness of film as a means of visual communication and an art form.

Course Codes: 01004G05056/01004G05066**English Language Arts****English/Language Arts 12 – Literature Study (British Literature) # – Full Year****Pre-requisite: English Language Arts 11****Grade: 12**

English/Language Arts 12 blends composition, analytical reading, and literature into a cohesive whole. Students combine purposes, patterns, and genres in writing while incorporating research and rhetorical techniques. Collaboration and critical thinking lead to more complex presentations and products, with students honing their comprehension skills while reading more complicated literary and nonfiction texts. In this English/Language Arts 12 option, students will focus their attention primarily on the study of one literary genre; however, other types of texts will also be studied. This course will examine the lives, times, and works of major British authors in an overview of British literature from the Anglo-Saxons through the present. *Students may be required to pay for some supplies and activities.*

Course Codes: 01004G05036/01004G05046**English Language Arts****English 12: Research/Technical Writing/Communications# – Full Year****Pre-requisite: None****Grade: 12**

English/Language Arts 12 blends composition, analytical reading, and literature into a cohesive whole. Students combine purposes, patterns, and genres in writing while incorporating research and rhetorical techniques. Collaboration and critical thinking lead to more complex presentations and products, with students honing their comprehension skills while reading more complicated literary and nonfiction texts. Research/Technical Writing courses prepare students to write research papers and/or technical reports, with an emphasis on researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing for a variety of purposes and audiences.

Course Codes: 01105G05012/01105G05022**English Language Arts**

AP English Literature and Composition (AP Senior English) # – Full Year**Pre-requisite: Teacher approval****Grade: 12**

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP English Literature and Composition courses enable students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing). *Students may be required to pay for some supplies and activities. Students will take the AP test in May at a cost of around \$90.*

Course Codes: 01006H05012/01006H05022**English Language Arts****Fee: \$10.00****Literature of an Author: Shakespeare – One Semester****Pre-requisite: None****Grade(s): 9, 10, 11, 12**

As an English/Language Arts 12 option, this course blends and combines purposes, patterns, and genres in writing while incorporating research and rhetoric techniques. Collaboration and critical thinking lead to more complex presentations and products, with students honing their comprehension skills while reading more complicated literary and nonfiction texts. Oral discussion and presentation are integral to student learning. This course focuses on Shakespeare and his work. Students determine the underlying assumptions and values within the selected works; compare techniques, styles, and themes of the author; and reflect upon the time period in which the author lived.

Course Code: 01060G05011**Elective Language Arts****Creative Writing – One Semester****Pre-requisite: None****Grade(s): 11, 12**

Creative Writing offers students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing courses cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting).

Course Code: 01104G05011**Elective Language Arts****Forensic Speech Debate # – Full Year****Pre-requisite: None****Grade(s): 9, 10, 11, 12**

Forensic Speech—Debate courses offer students the opportunity to learn how to use oral skills in formal and informal situations. In these courses, students are able to develop such skills as logic and reasoning, research and analysis, organization of thought and supporting materials, argumentative style and skill, and effective presentation of one's voice and body. Often linked to an extracurricular program, these courses introduce students to the methods, aims, and styles used in various kinds of debates (formal debate or Lincoln-Douglas). With a primary focus on argumentation and researching and debating the national debate resolutions, the course enhances and integrates all academic disciplines. Students learn how to prepare for and use oral argument effectively in formal and informal situations. Current national and international policy issues, political philosophy, logic, ethics and law are staples of this course. Students will also become familiar with individual public performance in acting/interpretation and various forms of public speaking. Debate is a co-curricular course requiring interscholastic competition and active participation as a member of the Debate Team and the National Forensics League. Students will be asked to defray part of their expenses for the Debate Team through fund raising or a contribution of \$125 per semester.

Course Code: 01153E05012/01153E05022**Elective Language Arts****Fee: \$125 per semester****Journalism – One Semester****Pre-requisite: None****Grade(s): 9, 10, 11, 12**

Journalism courses (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism courses introduce students to the concepts of newsworthiness and press responsibility; develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. Photography and photojournalism skills may be included. Journalism introduces the fundamental techniques of news writing, reporting, interviewing, journalistic ethics and legal issues; computer assisted research, design and desktop publishing; and practical experience in writing for campus publications. This course is a prerequisite for becoming a newspaper staff member.

Course Code: 11101G05012**Elective Language Arts****Journalism Advanced: Newspaper – Full Year****Pre-requisite: Teacher Approval/ Journalism****Grade(s): 9, 10, 11, 12**

Advanced Journalism is a practicum for the concepts and skills learned in Journalism. Students write news, editorials, sports and features; conduct interviews, generate and manipulate art, refine desktop publishing skills, develop on camera broadcast skills and facility with the use of Adobe In Design and PhotoShop. This class is responsible for production, publication, and distribution of the school newspaper, *Spectator*. Given the involvement necessary outside of class, this course is considered co-curricular.

Course Codes: 11101E05012/11101E05022**Elective Language Arts****Publication Prod: Yearbook – Full Year****Pre-requisite: Teacher Approval****Grade(s): 10, 11, 12**

Publication Production courses provide students with the knowledge and skills necessary to produce the school newspaper, yearbook, literary magazine, or other printed publication. Students may gain experience in several components (writing, editing, layout, production, and so on) or may focus on a single aspect while producing the publication. Students apply the basic skills of journalism to prepare, publish, and distribute the school yearbook, *Lahian*, and literary magazine, *Harbinger*. Students raise funds for publications by selling advertising and through other fundraisers.

Course Codes: 11104G05034/11104G05044**Elective Language Arts****Strategic Reading 9 – Full Year****Pre-requisite: Teacher Approval****Grade: 9**

Strategic Reading is intended to improve a student's vocabulary, critical-thinking and analysis skills, and/or reading rate and comprehension level. Although works of fiction are typically emphasized, these courses may also include works of nonfiction (including textbooks). Strategic Reading often has a time-management focus, offering strategies for note-taking, understanding and evaluating the important points of a text.

Course Codes: 01066B05018/01066B05028**Elective Language Arts**

Strategic Reading 10 – Full Year
Pre-requisite: Teacher Approval
Grade: 10

Course Codes: 01066B05038/01066B05048
Elective Language Arts

Strategic Reading is intended to improve a student's vocabulary, critical-thinking and analysis skills, and/or reading rate and comprehension level. Although works of fiction are typically emphasized, these courses may also include works of nonfiction (including textbooks). Strategic Reading often has a time-management focus, offering strategies for note-taking, understanding and evaluating the important points of a text.

Strategic Reading 11 – Full Year
Pre-requisite: Teacher Approval
Grade: 11

Course Codes: 01066B05058/01066B05068
Elective Language Arts

Strategic Reading is intended to improve a student's vocabulary, critical-thinking and analysis skills, and/or reading rate and comprehension level. Although works of fiction are typically emphasized, these courses may also include works of nonfiction (including textbooks). Strategic Reading often has a time-management focus, offering strategies for note-taking, understanding and evaluating the important points of a text.

English as a Second Language

ESL English 1 – Full Year
Pre-requisite: CELA score of 3, 4, or 5
Grade(s): 9, 10, 11, 12

Course Codes: 01008G05010/01008G05020
English Language Arts

This course is designed primarily for students who are still in the beginning or early intermediate stages of English language development. Through developmentally appropriate literary texts and highly scaffolded instruction of reading and writing, this course will address 9th grade English Language Arts standards while simultaneously developing oral language skills. Students enrolled in this course receive English Language Arts credit; when possible, ELLs at this level should be simultaneously enrolled in ESL 1 or 2.

ESL English 2 – Full Year
Pre-requisite: CELA score of 3, 4, or 5
Grade(s): 9, 10, 11, 12

Course Codes: 01008G05030/01008G05040
English Language Arts

This course is designed primarily for students who are still in the beginning or early intermediate stages of English language development. Through developmentally appropriate literary texts and highly scaffolded instruction of reading and writing, this course will address 9th grade English Language Arts standards while simultaneously developing oral language skills. Students enrolled in this course receive English Language Arts credit; when possible, ELLs at this level should be simultaneously enrolled in ESL 1 or 2.

ESL English 3 – Full Year
Pre-requisite: CELA score of 3, 4, or 5
Grade(s): 9, 10, 11, 12

Course Codes: 01008G05050/01008G05060
English Language Arts

This course is designed primarily for students who are in the early intermediate or intermediate stages of English language development. Through developmentally appropriate literary texts and highly scaffolded instruction of reading and writing, this course will address 10th grade English Language Arts standards while continuing to expand oral language skills. Students enrolled in this course receive English Language Arts credit; when possible, ELLs at this level should be simultaneously enrolled in ESL 3.

Literacy Acceleration (ESL) – Full Year
Pre-requisite: Teacher approval
Grade(s): 9, 10, 11, 12

Course Codes: 99806G05012/99806G05022
Elective Language Arts

This elective course is designed for linguistically diverse students who have been enrolled in U.S. schools for the majority of their education yet struggle with the academic literacy demands of mainstream content area classes. Through a framework of thematic units and project-based learning, students will gain confidence as they strengthen the reading, writing and academic language skills necessary for school success and lifelong learning. Students at this level should be concurrently enrolled in a mainstream English course for English credit.

Reading Strategies I (ESL) – Full Year
Pre-requisite: Teacher approval
Grade(s): 9, 10, 11, 12

Course Codes: 99825G05010/99825G05020
Elective Language Arts

This elective course is designed primarily for linguistically diverse students who are in the intermediate or high intermediate stages of English language development who need specific support in reading. Instruction will focus on improving students' vocabulary, critical thinking and analysis skills, reading fluency and comprehension level. Students will learn specific strategies and apply them to a variety of texts, including content area texts, by connecting reading with speaking, listening and writing to improve comprehension. Students at this level should be concurrently enrolled in a mainstream English course for English Language Arts credit.

Reading Strategies II (ESL) – Full Year
Pre-requisite: Completion Reading Strategies I; Teacher approval
Grade(s): 9, 10, 11, 12

Course Codes: 99825G05030/99825G05040
Elective Language Arts

This elective course is designed primarily for linguistically diverse students who are in the high intermediate or advanced stages of English language development who need specific support in reading. Instruction will focus on improving students' vocabulary, critical thinking and analysis skills, reading fluency and comprehension level. Students will learn specific strategies and apply them to a variety of texts, including content area texts, by connecting reading with speaking, listening and writing to improve comprehension. Students at this level should be concurrently enrolled in a mainstream English course for English Language Arts credit.

Study Skills (ESL) – Full Year
Pre-requisite: English Language Proficiency of NEP – LEP
Grade(s): 9, 10, 11, 12

Course Codes: 22003G05010/22003G05020
Elective Language Arts

Miscellaneous Study Skills courses prepare students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate organized, logical thinking and writing.

Family & Consumer Sciences

Teen Choices – One Semester

Pre-requisite: None

Grade(s): 9, 10

Teen Choices includes large and small group activities designed to help the students understand themselves and their relationships with others. Students will develop techniques for handling friends, high school, dating and other teen related issues. Topics to be covered include responsible decision making and problem solving, human development, sexuality issues, abstinence, effective communication, teens and the law, destructive behaviors and addictions. Methods of handling social pressures and a teen's personal power will be emphasized.

Course Code: 22209G05011

Fine Arts/CTE

Introductory Food and Nutrition – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

This is an introductory course in food preparation and nutrition. Throughout foods lab experiences, students will be learning the principles of cooking and preparing foods, egg cookery, quick and yeast breads, poultry and beef dishes, and fruits and vegetables. Students will learn the importance of healthy eating habits. In addition, students will acquire the knowledge about safety and sanitation, equivalents, and equipment needed to be successful in the kitchen.

Course Code: 16054G05011

Fine Arts/CTE

Fee: \$25.00

Food Service – Catering – Full Year

Pre-requisite: Introductory Food and Nutrition

Grade(s): 10, 11, 12

This course gives students the opportunity to take culinary skills to the next level. Students will learn meal planning, organizing, preparing and serving in a more commercial atmosphere. Students will demonstrate their knowledge of commercial safety and sanitation practices. Topics may include artful food presentation, creative cooking techniques, food trends, small business practices, entrepreneurship, and knowledge enhancing a possible future career in the culinary field.

Course Codes: 16057G05012/16057G05022

Fine Arts/CTE

Fee: \$60.00 per year

Advanced Interior Design – Full Year

Pre-requisite: None

Grade(s): 10, 11, 12

Advanced Interior Design provides students with advanced knowledge regarding interior design. While exploring design elements and principles, needs and style, and decision-making, students may also explore the following topics: color, texture, furniture styles and arrangement, lighting, window treatments, floor and wall coverings, and improvement/modification. Advanced Interior Design courses may also cover architectural style and design, both residential and commercial. Housing problems or current housing issues may also be explored. *Eligible juniors and seniors may earn RRCC credit.*

Course Codes: 19205G05012/19205G05022

Fine Arts/CTE

Fee: \$25.00

Life Management – One Semester

Pre-requisite: None

Grade(s): 11, 12

Students in Life Management will demonstrate problem solving, communication skills, computation/estimation, career choice, paycheck management and decision making skills for living on their own. Students will apply knowledge to real world situations like managing resources and finances, paying bills, using credit, applying for loans, selecting apartments and cars, and balancing checkbooks to meet their short and long term goals. Becoming an effective consumer will be emphasized. In addition, topics covered may include investment planning, taxes, personal wellness, and time management.

Course Code: 22206G05012

Fine Arts/CTE

Interpersonal Relationships – One Semester

Pre-requisite: None

Grade(s): 11, 12

Interpersonal Relationships helps young men and women establish personal goals for living, as well as develop positive and rewarding relationships. Students will demonstrate communication skills based on male/female roles in relationships and family situations. Students will examine relationship issues, marriage planning, communication, family decisions and crises, and stages of the life cycle through group discussions, simulations, and case studies. Use of critical thinking and positive interpersonal skills in family issues and other adult situations will be emphasized.

Course Code: 22208G05011

Fine Arts/CTE

Child Development/Parenting – One Semester

Pre-requisite: None

Grade(s): 10, 11, 12

The Child Development/Parenting course provides students with knowledge about the physical, mental, emotional, and social growth and development of children from conception to adolescence. Course content typically includes topics such as prenatal and birth processes; responsibilities and difficulties of parenthood; fundamentals of children's emotional and physical development; and the appropriate care of infants, toddlers, young children and school-aged children. Students interested in careers with children and/or psychology will find this class an excellent experience.

Course Code: 22204G05011

Fine Arts/CTE

Teacher Cadet – Full Year

Pre-requisite: 3.0 GPA and Teacher Approval

Grade(s): 11, 12

This full year course is designed for students who have a strong interest in, or who are considering a career related to, the occupation of "teacher" at any age or grade level. Students will complete self-assessments, participate in individual and group projects, complete observations at various ages and stages of learning, and increase their understanding of themselves and others as "learners". The culminating event in this class is a 6-week mini-teaching experience during second semester at an area school where students will plan and deliver lessons under the supervision of a cooperating teacher. This academic elective course is fast paced and students may apply for college credit with a "B" or higher in the class. *Eligible juniors and seniors may earn RRCC credit.*

Course Codes: 99809G05012/99809G05022

Fine Arts/CTE

Mathematics

Particular Topics in Algebra – Full Year

Pre-requisite: Teacher approval; concurrent enrollment in Algebra 1

Grade(s): 9, 10

This course is a double dose course used in conjunction with an Algebra course. This course counts as an elective and is used to fill gaps for struggling students.

Course Codes: 02058B05034/02058B05044

Elective Mathematics

Algebra I # – Full Year

Prerequisite: Successful completion of pre-algebra

Grade(s): 9, 10

This course meets 9th grade Colorado standards by following district approved Algebra curriculum and counts as first year of graduation requirements. Algebra I includes the study of properties and operations of the real number system including irrational numbers, applications of proportional reasoning, and solving and graphing first degree equations, inequalities and systems of linear equations. Students generate equivalent expressions, use formulas to solve problems, simplify and factor polynomials and solve simple quadratic equations. An emphasis is placed on analyzing situations verbally, numerically, graphically, and symbolically. To meet 21st century learning, students use technology and models to investigate and explore mathematical ideas and relationships and develop multiple strategies for analyzing complex situations.

Course Codes: 02052G05014/02052G05024

Mathematics: Algebra I

Algebra I (ESL) # – Full Year

Pre-requisite: Successful completion of pre-algebra

Grade(s): 9, 10

This course meets 9th grade Colorado standards by following district approved Algebra curriculum and counts as first year of graduation requirements. Algebra I includes the study of properties and operations of the real number system including irrational numbers, applications of proportional reasoning, and solving and graphing first degree equations, inequalities and systems of linear equations. Students generate equivalent expressions, use formulas to solve problems, simplify and factor polynomials and solve simple quadratic equations. An emphasis is placed on analyzing situations verbally, numerically, graphically, and symbolically. To meet 21st century learning, students use technology and models to investigate and explore mathematical ideas and relationships and develop multiple strategies for analyzing complex situations. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Codes: 02052G05010/02052G05020

Mathematics: Algebra I

Algebra I Analytical (Principles) – Full Year

Pre-requisite: Teacher approval

Grade(s): 10, 11, 12

This course meets Colorado 9th grade standards, covers the same content as the district approved Algebra grade curriculum, and counts as first year of graduation requirements. Analytical Algebra infuses business concepts and skills into Algebra I. It includes the study of properties and operations of the real number system, applications of proportional reasoning, solving and graphing first degree equations, inequalities and systems of linear equations. Students generate equivalent expressions, use formulas to solve problems, simplify and factor polynomials and solve simple quadratic equations. Classroom-ready lesson plans are built around 9th grade Colorado standards with business applications like department store floor plans, payroll calculations, and customer satisfaction surveys create an authentic learning experience for students and a direct connection to real world problem solving. The curriculum demonstrates pre-collegiate preparation, and meets community college admissions standards. (This is a Career and Technical Education course)

Course Code: 02052G05034/02052G05044

Mathematics: Algebra I

Geometry # – Full Year

Pre-requisite: Successful completion of Algebra 1 (or equivalent)

Grade(s): 9, 10, 11, 12

This course meets 10th grade Colorado standards by following the district approved Geometry curriculum and counts as second year of graduation requirements. This course develops the structure of Euclidean geometry and applies the resulting theorems and formulas to address meaningful problems. It includes properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems and proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; rules of angle measurement in triangles and concepts of coordinate geometry and trigonometry. Dynamic geometry software, compass and straightedge, and other tools are used to investigate and explore mathematical ideas and relationships and to develop multiple strategies for analyzing complex situations. *A TI-83 Plus or TI-84 series is recommended.*

Course Codes: 02072G05014/02072G05024

Mathematics: Geometry or Higher

Geometry (ESL) # – Full Year

Pre-requisite: Successful completion of Algebra 1 (or equivalent)

Grade(s): 9, 10, 11, 12

This course meets 10th grade Colorado standards by following the district approved Geometry curriculum and counts as second year of graduation requirements. This course develops the structure of Euclidean geometry and applies the resulting theorems and formulas to address meaningful problems. It includes properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems and proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; rules of angle measurement in triangles and concepts of coordinate geometry and trigonometry. Dynamic geometry software, compass and straightedge, and other tools are used to investigate and explore mathematical ideas and relationships and to develop multiple strategies for analyzing complex situations. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development. *A TI-83 Plus or TI-84 series is recommended.*

Course Codes: 02072G05010/02072G05020

Mathematics: Geometry or Higher

Geometry Honors # – Full Year**Pre-requisite: Successful completion of Algebra 1, Teacher approval****Grade(s): 9, 10**

This course meets 10th grade Colorado standards by following the district approved Geometry curriculum and counts as second year of graduation requirements. This course develops the structure of Euclidean geometry and applies the resulting theorems and formulas to address meaningful problems. It includes properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems and proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; rules of angle measurement in triangles and concepts of coordinate geometry and trigonometry. Dynamic geometry software, compass and straightedge, and other tools are used to investigate and explore mathematical ideas and relationships and to develop multiple strategies for analyzing complex situations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02072H05012/02072H05022**Mathematics: Geometry or Higher****Geometry Principles – Full Year****Pre-requisite: Successful completion of Algebra 1, Teacher approval****Grade(s): 10, 11, 12**

This course meets 10th grade Colorado standards and covers the same content as the district approved Geometry curriculum. This course counts as second year of graduation requirement. Students continue their pursuit of formal mathematics using geometry concepts, properties, and relationships in problem solving within the context of the construction industry. The emphasis is on using experimentation and inductive reasoning to construct geometric concepts, discover geometric relationships, and formulate conjectures. Deductive logic is employed to construct informal logical arguments and proofs. Topics include: logic, properties of triangles, parallel and perpendicular lines, congruence, similarity, coordinate geometry, area, volume, properties for circles and introductory trigonometry. Technology is emphasized through the use of graphing calculators and software applications. Students apply mathematical skills and make meaningful connections to life's experiences. (This is a Career and Technical Education Course)

Course Codes: 02072G05034/02072G05044**Mathematics: Geometry or Higher****Algebra Intermediate – Full Year****Pre-requisite: Successful completion of Geometry, Teacher approval****Grade(s): 10, 11, 12**

This course follows the 11th grade district approved curriculum and counts as the third year of graduation requirements. Intermediate Algebra connects and extends algebra and geometry concepts. This course focuses on modeling various situations using rigorous mathematics with an emphasis on real numbers and algebraic properties, graphing skills, and applications drawn from a variety of areas including algebra, statistics, geometry, and continuous and discrete mathematics. Topics include polynomials, factoring, exponents and their notation, matrices, linear functions, linear systems and inequalities, quadratics, exponential functions, geometric connections, trigonometry and topics in probability and statistics. Students apply mathematical skills and make meaningful connections to life's experiences. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02069G05014/02069G05024**Mathematics: Geometry or Higher****Algebra II # - Full Year****Pre-requisite: Successful completion of Geometry (or equivalent)****Grade(s): 9, 10, 11, 12**

This course follows the Algebra 2 district approved curriculum and counts as a third year of graduation requirements. Algebra 2 topics include operations with rational and irrational expressions, in-depth study of linear equations and inequalities, analyzing and solving quadratic functions including complex numbers, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents. Students investigate and solve linear piece wise, absolute value, cubic, radical, exponential, logarithmic, and rational functions algebraically, numerically, and graphically, with and without a graphing calculator. Students analyze data and develop mathematical models to address real world problem situations. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02056G05012/02056G05022**Mathematics: Geometry or Higher****Algebra II Honors # – Full Year****Pre-requisite: Successful completion of Algebra 1, Teacher approval****Grade(s): 9, 10, 11, 12**

This course follows the Algebra 2 district approved curriculum and counts as a third year of graduation requirements. Algebra 2 topics include operations with rational and irrational expressions, in-depth study of linear equations and inequalities, analyzing and solving quadratic functions including complex numbers, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents. Students investigate and solve linear piece wise, absolute value, cubic, radical, exponential, logarithmic, and rational functions algebraically, numerically, and graphically, with and without a graphing calculator. Students analyze data and develop mathematical models to address real world problem situations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02056H05012/02056H05022**Mathematics: Geometry or Higher****Algebra II Process Science - Full Year****Pre-requisite: Successful completion of Geometry, Teacher approval****Grade(s): 11, 12**

This course follows the 11th grade district approved curriculum and counts as the third year of graduation requirements. The main focus of this course is to connect and extend algebra and geometry concepts to other functions and systems of equations. Students continue their pursuit of formal mathematics within a context of process sciences. The classroom-ready lesson plans are built around the 11th grade district approved curriculum. ACT and Accuplacer concepts and skills are illustrated in process technology which involves the production of consumer goods from raw material. Students participate in rigorous analysis of mathematics designed to facilitate the creation of products by mechanically, physically, and/or chemically changing raw material monitored and controlled by process technicians. This is a Career and Technical Education course.

Course Codes: 02069G05034/02069G05044**Mathematics: Geometry or Higher**

Pre-Calculus/Trigonometry # - Full Year**Pre-requisite:** Successful completion of Algebra II (or equivalent)**Grade(s):** 10, 11, 12

This course combines the study of trigonometry, elementary functions, analytical geometry and math analysis topics as preparation for calculus. Topics include the study of complex numbers, polynomial, logarithmic, exponential, rational, right trigonometric and circular functions and their relations, inverses, and graphs, trigonometric identities and equations, solutions of right and oblique triangles, vectors, parametric equations and their graphs, the polar coordinate system, conic sections, and limits. NOTE: This class includes Calculus A topics. A TI-83 Plus or TI-84 series is required.

Course Codes: 02110G05012/02110G05022**Mathematics:** Geometry or Higher**Inferential Probability and Statistics # – Full Year****Pre-requisite:** Successful completion of Algebra II (or equivalent)**Grade(s):** 11, 12

This full year course provides a means by which the student will become a more effective communicator through the study of probability and statistics. It focuses deeply on descriptive statistics, with an introduction to inferential statistics. Topics include sample spaces, measures of central tendency, normal curve, sampling techniques, standard deviation, t-test, correlation coefficient, techniques for determining probabilities, and matrix algebra. Students will be able to conduct a hypothesis test for a population mean, a population proportion, and a population variance; construct confidence intervals for population parameters; and conduct regression analysis for variables. Technology will be emphasized through the use of graphing calculators. A TI-83 Plus or TI-84 series is required.

Course Codes: 02202G05012/02202G05022**Mathematics:** Geometry or Higher**AP Statistics # – Full Year****Pre-requisite:** Successful completion of Algebra II, Teacher approval**Grade(s):** 11, 12

This course follows the College Board's suggested curriculum designed to parallel college-level statistics courses. AP Statistics courses introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. *Students will be required to purchase a textbook. All students are expected to take the AP exam at the approximate cost of \$90.*

Course Codes: 02203H05012/02203H05022**Mathematics:** Geometry or Higher**Fee:** \$10.00**AP Calculus AB # – Full Year****Pre-requisite:** Successful completion of Pre-Calculus/Trig, Teacher approval**Grade(s):** 11, 12

This course follows the College Board's suggested curriculum designed to parallel college-level calculus courses. AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of change problems); and integral calculus (including anti-derivatives, the definite integral and application of integrals). *This course relies heavily on the use of the TI-89 graphing calculator (purchase optional). Supplementary materials may be required. Students are expected to take the AP exam at the approximate cost of \$90.*

Course Codes: 02124H05012/02124H05022**Mathematics:** Geometry or Higher**Fee:** \$10.00**AP Calculus BC # – Full Year****Pre-requisite:** Teacher approval**Grade(s):** 11, 12

This course follows the College Board's suggested curriculum designed to parallel college-level calculus courses. AP Calculus BC provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications, and also requires additional knowledge of the theoretical tools of calculus. This course assumes a thorough knowledge of elementary functions, and covers all of the calculus topics in AP Calculus AB as well as the following topics: vector functions, parametric equations and graphs, polar coordinates and functions, advanced techniques of integration, advanced applications of the definite integral, polynomial approximation and series. *This course relies heavily on the use of the TI-89 graphing calculator (purchase optional). Supplementary materials may be required. Students are expected to take the AP exam at the approximate cost of \$90.*

Course Codes: 02125H05012/02125H05022**Mathematics:** Geometry or Higher**Fee:** \$10.00

Performing and Visual Arts

Art

Creative Art—Draw/Paint – One Semester**Pre-requisite:** None**Grade(s):** 9, 10, 11, 12

Creative Art—Drawing/Painting covers the same topics as the Creative Art—Comprehensive course, but focuses on drawing and painting. In keeping with this attention on two-dimensional work, students typically work with several media (such as pen-and-ink, pencil, chalk, watercolor, tempera, oils, acrylics, and so on), but may focus on only one medium. This course is for students who want to improve their basic drawing and painting skills through sketchbook and project assignments.

Course Code: 05155G05012**Elective:** Art**Fee:** \$30.00**Creative Art—Drawing Intermediate – One Semester****Pre-requisite:** Creative Art – Draw/Paint w/ a “C” or above**Grade(s):** 9, 10, 11, 12

Creative Art—Drawing Intermediate will allow students who completed Beginning Drawing to expand their skills. Students will explore new mediums and techniques while focusing on observation and compositional elements. Contemporary trends in art will be integrated within this course to enrich student knowledge and awareness.

Course Code: 05156G05022**Elective:** Art**Fee:** \$30.00**Creative Art—Painting Intermediate – One Semester****Pre-requisite:** Creative Art – Draw/Paint w/ a “C” or above**Grade(s):** 9, 10, 11, 12

Creative Art—Painting Intermediate will allow students who completed Beginning Painting to expand their skills. Students will explore new mediums and techniques while focusing on observation and compositional elements. Contemporary trends in art will be integrated within this course to enrich student knowledge and awareness.

Course Code: 05157G05022**Elective:** Art**Fee:** \$30.00

Creative Art—Draw/Paint Advanced – One Semester Pre-requisite: Creative Art – Draw/Paint Intermediate w/ a “C” or above Grade(s): 10, 11, 12 Creative Art—Drawing/Painting Advanced is designed to provide the student with a more in-depth approach to drawing and painting. Students will explore a wide range of media while strengthening drawing and painting skills, focusing on a high level of expressiveness. Students will analyze their own work as well as study the merits and meanings of contemporary and historical works of art.	Course Code: 05155E05011 Elective: Art Fee: \$35.00
Creative Art - Painting-Studio – Up to 4 Semesters Pre-requisite: Creative Art – Draw/Paint Advanced w/ a “C” or above Grade(s): 10, 11, 12 Painting-Studio offers students the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly. <i>Work developed in this course may be compiled for AP Drawing Portfolio and/or College Portfolio for entrance and possible scholarship considerations.</i>	Course Code: 05197E05089 Elective: Art Fee: \$35.00 per semester
Creative Art - Drawing-Studio – Up to 4 Semesters Pre-requisite: Creative Art – Draw/Paint Advanced w/ a “C” or above Grade(s): 10, 11, 12 Drawing--Studio offers students the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly. . <i>Work developed in this course may be compiled for AP Drawing Portfolio and/or College Portfolio for entrance and possible scholarship considerations.</i>	Course Code: 05197E05039 Elective: Art Fee: \$35.00 per semester
AP Studio Art—Drawing Portfolio – Full Year Pre-requisite: Teacher approval Grade(s): 11, 12 Designed for students with a serious interest in art, the AP Studio Art— Drawing Portfolio course enables students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the course typically emphasize quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of drawing. In this course, students explore representation, abstraction, and experimentation with a variety of drawing materials. <i>All students are expected to take the AP exam which consists of portfolios being submitted to AP judges in May at a cost of approximately \$90.</i>	Course Codes: 05172H05012/05172H05022 Elective: Art Fee: \$65.00
IB Visual Arts – Full Year Pre-requisite: Creative Art – Drawing/Painting; Teacher approval Grade(s): 11, 12 IB Visual Arts prepares students to take the International Baccalaureate Art/Design exams at either the Standard or Higher level. The IB Visual Arts course helps develop students’ aesthetic and creative faculties, offers training in awareness and criticism of art, and enables students to create quality works of art of their own. Students perform both studio and research work; the research component is designed to investigate particular topics or concepts of interest in further detail. <i>The final exam in April demonstrates the culmination of a cohesive body of work in an art exhibition and oral exam. A textbook is required and students may have to purchase additional materials.</i>	Course Codes: 05173H05014/05173H05024 Elective: Art Fee: \$60.00
Creative Art—Sculpture/3D – One Semester Pre-requisite: None Grade(s): 9, 10, 11, 12 Creative Art—Sculpture covers the same topics as the Creative Art— Comprehensive course, but focuses on creating three-dimensional works. Students typically work with several media (such as clay, ceramics, wood, metals, textiles, and so on), but may focus on only one medium. A sketchbook is provided.	Course Code: 05158G05012 Elective: Art Fee: \$40.00
Ceramics/Pottery – One Semester Pre-requisite: None Grades: 9, 10, 11, 12 Ceramics/Pottery covers the same topics as Creative Art— Comprehensive, but focuses on creating three-dimensional works out of clay and ceramic material. Particular attention is paid to the characteristics of the raw materials, their transformation under heat, and the various methods used to create and finish objects. A sketchbook is provided.	Course Code: 05159G05012 Elective: Art Fee: \$40.00
Ceramics/Pottery Intermediate – One Semester Pre-requisite: Ceramics/Pottery w/ a “C” or better Grade(s): 9, 10, 11, 12 Ceramics/Pottery Intermediate will allow students who completed Beginning Ceramics/Pottery to expand their three-dimensional skills. Students will explore new mediums and techniques while focusing on observation and compositional elements. Contemporary trends in art will be integrated within this course to enrich student knowledge and awareness. A sketchbook is provided.	Course Code: 05159G05022 Elective: Art Fee: \$40.00
Ceramics/Pottery Advanced – One Semester Pre-requisite: Ceramics/Pottery Intermediate w/ a “C” or better Grade(s): 10, 11, 12 Ceramics/Pottery Advanced is designed to provide the student with a more in-depth approach to three-dimensional work. Students will explore a wide range of media while strengthening their skills, focusing on a high level of expressiveness. Students will analyze their own work as well as study the merits and meanings of contemporary and historical works of art. A sketchbook is provided.	Course Code: 05159E05012 Elective: Art Fee: \$40.00
Ceramics/Pottery-Studio – One Semester Pre-requisite: Teacher approval Grade(s): 11, 12 Ceramics/Pottery—Studio offers students the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly. A sketchbook is provided.	Course Code: 05197E05059 Elective: Art Fee: \$40.00

Graphic Design – One Semester**Pre-requisite: None****Grade(s): 9, 10, 11, 12**

Graphic Design provides instruction in the basics of electronic imaging via Adobe Photoshop. Students will learn the basic toolbox functions and they will create works of art by manipulating images electronically. Students will begin with tutorials and progress to individual problems. Use of the scanner and color printer will be included. Hard copies of files will be produced. *A sketchbook is needed. Eligible juniors and seniors may receive credit from Red Rocks Community College.*

Course Code: 05162G05014**Fine Arts/CTE****Fee: \$30.00****Graphic Design Intermediate – One Semester****Pre-requisite: Graphic Design w/ a “C” or better****Grade(s): 9, 10, 11, 12**

Graphic Design Intermediate is a continuation of the beginning Graphics course. Students will explore advanced features of Adobe Illustrator as they build on their knowledge of the many tools of Photoshop. Art assignments for the commercial arena and pursuit of personal expression will be given, as well as creative use of equipment such as scanners, printers, digital cameras and computers. Students will become familiar with copyright issues and will be introduced to digital animation. *A sketchbook is needed. Eligible juniors and seniors may receive credit from Red Rocks Community College.*

Course Code: 05162G05034**Fine Arts/CTE****Fee: \$30.00****Photography – One Semester****Pre-requisite: None****Grade(s): 9, 10, 11, 12**

In Photography, students will receive a fundamental course covering selection, care, maintenance, handling of cameras, film types, light metering, and compositional techniques. Emphasis will be on 35mm SLR camera techniques. Basic darkroom procedures such as film processing, contact printing, and enlarging will be covered. On-location shooting assignments will be made. No overnight camera rental is available for beginning students. School cameras are available for use during the school day on campus. Additional time outside of class is required to photograph and work in the darkroom. Two after-school open lab days are provided. The fee covers film, photo paper, processing chemicals, negative and print sleeves.

Course Code: 05167G05014**Fine Arts/CTE****Fee: \$50.00****Photography Intermediate – One Semester****Pre-requisite: Photography w/ a “C” or better****Grade(s): 9, 10, 11, 12**

Photography Intermediate emphasizes photography as an art form. Students will be encouraged to use photography as a creative and expressive tool through experimental darkroom techniques, multiple image exposure, hand coloring and other expressive processes which are used to produce strong visual images. Additionally, students will learn how to use the zone system for managing film and print exposure. Additional time outside of class is required to photograph and work in the darkroom. Two after-school open lab days are provided. The fee covers film, photo paper, processing chemicals, negative and print sleeves, and presentation materials.

Course Code: 05167G05034**Fine Arts/CTE****Fee: \$55.00****Photography Advanced - One Semester****Pre-requisite: Photography Intermediate w/ a “C” or better****Grade(s): 10, 11, 12**

Photography-Advanced is designed to provide students with a more in depth approach to photography. Instruction regarding the creative process becomes focused upon students developing their own artistic style. Historic styles and techniques and contemporary photographic trends will be analyzed as students critique their own work and begin to develop professional portfolios. In addition, students may explore the relationship of traditional darkroom photography to digital photography, including how to use the zone system of exposure for both. Additional time outside of class is required to photograph and work in the darkroom. Two after-school open lab days are provided. The fee covers film, photo paper, processing chemicals, negative and print sleeves, and presentation materials.

Course Code: 05167E05012**Fine Arts/CTE****Fee: \$55.00****Photography-Studio – Up to 5 Semesters****Pre-requisite: Photography Advanced w/ a “C” or better****Grade(s): 10, 11, 12**

Photography - Studio is designed to challenge the serious photography student. Emphasis is placed on perfecting photography, creative thinking, individual expression and problem solving, as well as developing an entry-level photography portfolio. Digital photography and manipulation of photographs using image-editing software may be explored along with advanced darkroom photography techniques. Students are encouraged to display their work publicly. Additional time outside of class is required to photograph and work in the darkroom. Two after-school open lab days are provided. The fee covers film, photo paper, processing chemicals, negative and print sleeves, and presentation materials.

Course Code: 05197E05069**Fine Arts/CTE****Fee: \$55.00****Drama****Introduction to Theater – One Semester****Pre-requisite: None****Grade(s): 9, 10, 11, 12**

Introduction to the Theater provides an overview of the art, conventions, and history of the theater. Although the courses sometimes include experiential exercises, they emphasize learning about the theater rather than performance. Students learn about one or more of the following topics: basic techniques in acting, major developments in dramatic literature, major playwrights, the formation of theater as a cultural tradition, and critical appreciation of the art. Students are required to attend a live performance.

Course Code: 05051G05011**Elective: Language Arts****Drama—Acting/Performance – One Semester****Pre-requisite: Intro to Theater****Grade(s): 9, 10, 11, 12**

Drama—Acting/Performance is intended to promote students' experience and skill development in one or more aspects of theatrical production, but they concentrate on acting and performance skills. This course is introductory in nature. Character development focuses on scripted work. Students are required to attend live performances.

Course Code: 05055G05014**Elective: Language Arts**

Drama—Acting/Performance Advanced – Full year
Pre-requisite: Acting/Performance; Audition required
Grade(s): 11, 12

Drama—Acting/Performance Advanced is intended to promote students' experience and using advanced skills in one or more aspects of theatrical production, but they concentrate on advanced acting and performance skills. This advanced course focuses on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions. Special consideration is given to one or more acting method or theory. *Students must audition for this class in January.*

Course Codes: 05055E05012/05055E05022
Elective: Language Arts

Drama—Stagecraft – One Semester
Pre-requisite: None
Grade(s): 9, 10, 11, 12

Drama—Stagecraft requires an active, creative student willing to work at a variety of tasks in a hands-on environment. Students will explore technical aspects of theater including lighting, sound, costumes, set design, and stage managing. Safety and responsibility are learned and are essential elements in this class.

Course Code: 05056G05012
Elective: Language Arts & Fine Arts/CTE

Drama—Stagecraft – Advanced – One Semester
Pre-requisite: Drama—Stagecraft
Grade(s): 9, 10, 11, 12

In Drama—Stagecraft Advanced, students will study the art of working in the backstage of a productions theater. Students will set and operate lights and sound for school productions. In addition, students will design & build sets for direct use in school productions. Safety and responsibility are essential elements in this course. This course offers older/more experienced students the opportunity to lead and train younger students as well. The ability to work independently and without constant supervision is critical to success in this class.

Course Codes: 05056E05012/05056E05022
Elective: Language Arts & Fine Arts/CTE

IB Theater Arts – Full year
Pre-requisite: Teacher approval
Grade(s): 11, 12

Students will understand the nature of the theater through study and performance. Students will learn of the major developments and techniques in the history of more than one culture, interpret and illuminate play scripts, understand the art of the stage, perform before an audience, produce work in at least one of the theatrical arts or crafts, understand the processes of theatrical production, and do a theatrical research project. Students in this class will be prepared to take the International Baccalaureate Theater Arts exam at the Standard Level.

Course Codes: 99805H05014/99805H05024
Elective: Language Arts

Instrumental Music

Concert Band – Full Year
Pre-requisite: None
Grade(s): 9, 10, 11, 12

Concert Band is designed to promote students' technique for playing brass and woodwind instruments and cover a variety of band literature styles, primarily for concert performances. *Members are responsible for the purchase of the ensemble uniform. Percussionists should sign up for the Instrumental Ensemble (Percussion) class. Students are required to attend all performances.*

Course Codes: 05102G05016/05102G05026
Fine Arts/CTE
Fee: \$60.00

Concert Band/Symphonic – Full Year
Pre-requisite: Audition Required
Grade(s): 9, 10, 11, 12

Symphonic Band is designed to promote more intermediate techniques for playing brass and woodwind instruments and cover a variety of band literature styles, primarily for concert performances. Students must audition for the instructor to participate in this ensemble. Students are encouraged to audition for Honor bands and All-State band. *Members are responsible for the purchase of the ensemble uniform. Percussionists should sign up for the Instrumental Ensemble (Percussion) class. Students are required to attend all performances.*

Course Codes: 05102G05036/05102G05046
Fine Arts/CTE
Fee: \$60.00

Concert Band/Winds – Full Year
Pre-requisite: Audition Required
Grade(s): 9, 10, 11, 12

Music Wind Ensemble is designed to promote more advanced techniques for playing brass and woodwind instruments and cover a variety of band literature styles, primarily for concert performances. Students are encouraged to audition for Honor bands and All-State band. Members are responsible for the purchase of the ensemble uniform. Percussionists should sign up for the Instrumental Ensemble (Percussion) class. *Students are required to attend all performances.*

Course Codes: 05102G05056/05102G05066
FineArts/CTE
Fee: \$60.00

Instrumental Ensemble (Percussion) – Full Year
Pre-requisite: Percussion experience required
Grade(s): 9, 10, 11, 12

Instrumental Ensemble is intended to develop students' technique for playing percussion. Instrumental Ensemble courses cover one or more instrumental ensemble or band literature styles. Students in this class will also be required to play at concerts and also perform with Symphonic Band, Concert Band, and the Full Orchestra. Students do not need to sign up for any of the Concert Bands. *Members are responsible for the purchase of the ensemble uniform. Students are required to attend all performances and after school rehearsals.*

Course Codes: 05106G05012/05106G05022
Fine Arts/CTE
Fee: \$60.00

Marching Band/Color Guard – Full Year
Pre-requisite: None
Grade(s): 9, 10, 11, 12

Color Guard requires the development of dance, movement, and the use of flags and other equipment (rifle, saber, etc.) in conjunction with the marching band. Developing the techniques of choreographed movement to the music is a prime focus. Students in this class will be required to be in marching band and winter guard. *Students are required to attend all performances and after school rehearsals.*

Course Codes: 05103G05012/05103G05022
Fine Arts/CTE
Fee: \$60.00

Orchestra – Full year**Pre-requisite: None**
Grade(s): 9, 10, 11, 12

Orchestra is designed to develop students' abilities to play brass, woodwind, percussion, and string instruments, covering a variety of string and orchestral literature styles. This full year class is devoted to the study and performance of intermediate orchestra literature. This ensemble will have the opportunity to perform at concerts and other special events. *Members are responsible for the purchase of the ensemble uniform. Students are required to attend all performances.*

Course Codes: 05104G05014/05104G05024**Fine Arts/CTE****Fee: \$60.00****Orchestra Advanced – Full Year****Pre-requisite: Audition Required**
Grade(s): 9, 10, 11, 12

Orchestra Advanced courses are designed to develop students' abilities to play string instruments, emphasizing advanced string techniques and covering a variety of string and orchestral literature styles. This is a strings only class. Winds and percussion are added at times for full orchestra instrumentation. This ensemble will have the opportunity to perform at concerts, festivals and other special events. Students are encouraged to audition for Honor orchestras and All-State orchestra. *Members are responsible for the purchase of the ensemble uniform. Students are required to attend all performances.*

Course Codes: 05104E05014/05104E05024**Fine Arts/CTE****Fee: \$60.00****Orchestra Chamber – Full Year****Pre-requisite: Audition Required**
Grade(s): 10, 11, 12

Music Orchestra-Chamber is designed to develop students' abilities to play brass, woodwind, percussion, and string instruments, covering a variety of string and orchestral literature styles. This is a smaller select group, working specifically on literature for the Chamber Ensemble. This ensemble will have the opportunity to perform at concerts, festivals and other special events. Students are encouraged to audition for Honor orchestras and All-State orchestra. *Members are responsible for the purchase of the ensemble uniform. Students are required to attend all performances.*

Course Codes: 05104E05034/05104E05044**Fine Arts/CTE****Fee: \$60.00****Contemporary/Jazz Band – Full Year****Pre-requisite: Audition Required**
Grade(s): 9, 10, 11, 12

Contemporary Band helps students develop their techniques for playing brass, woodwind, percussion, and string instruments, as well as guitars and keyboards, focusing primarily on contemporary stage band literature styles, such as traditional jazz, Latin, and rock. Jazz improvisation is introduced and developed. Improvisation at all levels is required of all participants. Performances include school concerts, festivals, and other special appearances. *Members are responsible for the purchase of the ensemble uniform. Students are required to attend all performances.*

Course Codes: 05105G05014/05105G05024**Fine Arts/CTE****Fee: \$60.00**

Vocal Music

Chorus – Men – Full Year**Pre-requisite: None (No audition)**
Grade(s): 9, 10, 11, 12

Chorus - Men provides the opportunity to sing a variety of choral literature for men's voices and is designed to develop vocal techniques and the ability to sing parts. *Members are responsible for the purchase of the ensemble uniform and are required to attend all performances.*

Course Codes: 05110G05016/05110G05026**Fine Arts/CTE****Fee: \$50.00****Chorus – Women (Women's Voices) – Full Year****Pre-requisite: None**
Grade(s): 9, 10, 11, 12

Chorus - Women provides the opportunity to sing a variety of choral literature for women's voices and is designed to develop vocal techniques and the ability to sing parts. There will be a focus on sight-reading and ear training skills. *Members must purchase the ensemble uniform and are required to attend all performances.*

Course Codes: 05110G05036/05110G05046**Fine Arts/CTE****Fee: \$50.00****Vocal Ensemble-Women (Kaleidoscope) – Full Year****Pre-requisite: Audition Required**
Grade(s): 10, 11, 12

Vocal Ensemble - Women is intended to develop women's vocal techniques and the ability to sing parts in small ensemble or madrigal groups. Course goals may include the development of solo singing ability and may emphasize one or several ensemble literature styles. *Members must purchase the ensemble uniform and are required to attend all performances.*

Course Codes: 05111G05036/05111G05046**Fine Arts/CTE****Fee: \$50.00****Vocal Ensemble-Select (Encore) – Full Year****Pre-requisite: None**
Grade(s): 10, 11, 12

Vocal Ensemble - Select is intended to develop advanced vocal techniques and the ability to sing parts in ensemble or madrigal groups. Course goals may include the development of solo singing ability and may emphasize various ensemble literature styles. *Members must purchase the ensemble uniform and are required to attend all performances.*

Course Codes: 05111E05012/05111E05022**Fine Arts/CTE****Fee: \$50.00****IB Music – Full Year****Pre-requisite: Success in an instrumental or vocal music class; must know all major & minor keys**
Grade(s): 11, 12

IB Music prepares students to take the International Baccalaureate Music exam at the Standard level. IB Music courses develop students' knowledge and understanding of music through training in musical skills (listening, performing, and composing); exposure to music theory; and formulation of an historic and global awareness of musical forms and styles. Historical, theoretical, and practical studies are suggested by the IB Curriculum Board. *Students will be required to purchase books and materials at an approximate cost of \$65.*

Course Codes: 05115H05014/05115H05024**Fine Arts/CTE**

Physical Education

Through P.E. students will have the necessary knowledge, skills, concepts, and experiences in health-related and skill-related fitness for work and leisure. They will know and understand the importance of physical activity in relation to the performance and health of their own bodies. Physical Education is an important component in grades 9-12. Research has shown a correlation between physical activity and improved academic success. Students are limited to one physical education class per semester. *Exceptions are made for freshmen who are also in power weights.

Lifetime Fitness Education – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

Lifetime Fitness emphasizes acquiring knowledge and skills regarding lifetime physical fitness; content may include related topics such as nutrition, stress management, and consumer issues. Students may develop and implement a personal fitness plan. Students will demonstrate the skills and knowledge necessary in order to be certified in Basic First Aid and CPR and the use of AED's (Automated External Defibrillators). This class involves both classroom and activity participation. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Code: 08016G05014

PE Health Physical Education

Fitness/Conditioning Aerobics (Females) – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Codes: 08005G05038/08005G05048

PE Health Physical Education

Team Sports – One Semester

Pre-requisite: None

Grade(s): 9, 10

Team Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one team sport (such as volleyball, basketball, soccer, and so on). *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Codes: 08002G05018/08002G05028

PE Health Physical Education

Weight Training – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

Weight Training helps students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Codes: 08009G05016/08009G05026

PE Health Physical Education

Individual/Dual Sports – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

Individual/Dual Sports courses provide students with knowledge, experience, and an opportunity to expand their skills in more than one individual or dual sport (such as tennis, golf, badminton, jogging/running, racquetball, and so on). Students will spend 40 minutes working in the weight room and 40 minutes in a wide variety of team activities. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Codes: 08003G05014/08003G05024

PE Health Physical Education

Specific Sports Activities (Basketball) – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

Specific Sports Activities helps students develop knowledge, experience, and skills in a single sport or activity (such as basketball, volleyball, track and field, and equestrian events) other than those coded within this section. This course is primarily designed for students who want to improve their fundamental skills and understanding of the rules in basketball. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Codes: 08013G05014/08013G05024

PE Health Physical Education

Recreation Sports (Racquet Sports) – One Semester

Pre-requisite: None

Grade(s): 9, 10, 11, 12

Recreation Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one recreational sport or outdoor pursuit (such as adventure activities, croquet, Frisbee, wall climbing, bocce ball, fishing, hiking, cycling, etc.). This class is primarily designed for students who want to improve their fundamental skills and understanding of the rules in team sports activities including tennis, pickle ball, badminton, and ping pong. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Codes: 08004G05014/08004G05024

PE Health Physical Education

Recreation Sports Intermediate (Bowling) – One Semester

Pre-requisite: None

Grade(s): 11, 12

Recreation Sports Inter allows students who completed the basic Recreation Sports to continue to build on the foundations developed in that class and/or pursue an additional recreational sport. (Such as adventure activities, croquet, Frisbee, wall climbing, bocce ball, fishing, hiking, cycling, bowling, etc.). This is an off-campus course intended to introduce the student to the basics of bowling, including scorekeeping, ball selection, technique and enjoyment of a lifetime skill. Students will bowl two games per day. Shoes and balls will be provided. The student is responsible for his/her own transportation to and from the bowling alley located at Holiday Bowling, 10350 W. Colfax Ave. in Lakewood. Class meets in the LHS gym the first two days. This is a first block class which begins at 7:40.

Course Codes: 08004G05034/08004G05044

PE Health Physical Education

Fee: \$95

Weight Training Advanced (Power Weights) – One Semester**Pre-requisite:** Teacher approval**Grade(s):** 10, 11, 12

Advanced Weight Training uses advanced skills and weight training techniques. This class is designed for the male and female athlete. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Codes: 08009E05012/08009E05022**PE Health Physical Education****Physical/Health Education-Aide – One Semester****Pre-requisite:** Application and Teacher approval**Grade(s):** 10, 11, 12

Physical, Health, and Safety Education—Aide offers students the opportunity to assist instructors in preparing, organizing, or delivering course curricula. Students may provide tutorial or instructional assistance to other students. This class is comprised of peer coaches who work with special needs students that need an adapted physical education experience. Coaches are trained by the instructors before beginning contact with the special needs athletes in the class. All students will learn a tremendous amount about themselves and others. At various times throughout the year, students will help special needs students train for Special Olympic competition. *Students will be responsible for providing a pair of shorts and a t-shirt, as well as appropriate tennis shoes for use in the gym.*

Course Code: 08995G00011**PE Health Physical Education**

Science

Earth Science # – Full Year**Pre-requisite:** None**Grade:** 9

Earth Science offers insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

Course Code: 03001G05012/03001G05022**Science****Earth Science (ESL) # – Full Year****Pre-requisite:****Grade:** 9

Earth Science offers insight in to the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Code: 03001G05010/03001G05020**Science****Earth Science Honors # – Full Year****Pre-requisite:** Teacher approval; Algebra I with a "B" or better**Grade:** 9

Earth Science offers insight in to the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Course Code: 03001H05012/03001H05022**Science****Biology # – Full Year****Pre-requisite:** None**Grade:** 10

Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

Course Code: 03051G05012/03051G05022**Science****Biology (ESL) # – Full Year****Pre-requisite:** None**Grade:** 10

Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Code: 03051G05010/03051G05020**Science****Biology Honors # – Full Year****Pre-requisite:** Teacher approval; Earth Science with a "B" or higher**Grade:** 10

Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Course Codes: 03051H05012/03051H05022**Science****Biology Advanced Studies # – Full Year****Pre-requisite:** None**Grade(s):** 11, 12

Usually taken after a comprehensive initial study of biology, Biology — Advanced Studies covers biological systems in more detail. Topics that may be explored include cell organization, function, and reproduction; energy transformation; human anatomy and physiology; and the evolution and adaptation of organisms.

Course Codes: 03052G05012/03052G05022**Science****Fee:** \$20.00

AP Biology # – Full Year**Pre-requisite: Biology; may take Chemistry concurrently****Grade(s): 11, 12**

Adhering to the curricula recommended by the College Board and designed to parallel college level introductory biology courses; AP Biology stresses basic facts and their synthesis into major biological concepts and themes. These courses cover three general areas: molecules and cells (including biological chemistry and energy transformation); genetics and evolution; and organisms and populations (i.e., taxonomy, plants, animals, and ecology). AP Biology courses include college-level laboratory experiments. *Students will be responsible for purchasing a textbook (new books are approximately \$100), a lab manual for \$18, and also take the AP exam at an approximate cost of \$90.*

Course Codes: 03056H05012/03056H05022**Science****Fee: \$25.00****Marine Biology # - One Semester****Pre-requisite: None****Grade(s): 11, 12**

A Marine Biology course is a laboratory-based exploration of the oceans and the marine ecosystems found in them. They explore the biology of the marine organisms, topography, chemistry, diversity and resources found in the ocean.

Course Code: 03064G05012**Science****Fee: \$10.00****Conceptual Chemistry – Full Year****Pre-requisite: Teacher approval****Grade(s): 11, 12**

Conceptual Chemistry is a practical, non-quantitative chemistry course designed for students who desire an understanding of chemical concepts and applications.

Course Codes: 03105G05012/03105G05022**Science****Fee: \$10.00****Conceptual Chemistry (ESL) – Full Year****Pre-requisite: Teacher approval****Grade(s): 11, 12**

Conceptual Chemistry is a practical, non-quantitative chemistry courses designed for students who desire an understanding of chemical concepts and applications. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Code: 03105G05010/03105G05020**Science****Fee: \$10.00****Chemistry # – Full Year****Pre-requisite: Algebra 1, Teacher approval****Grade(s): 11, 12**

Chemistry involves studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

Course Codes: 03101G05012/03101G05022**Science****Fee: \$10.00****Chemistry Honors # – Full Year****Pre-requisite: Algebra 1, Teacher approval****Grade(s): 11, 12**

Chemistry involves studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Course Codes: 03101H05012/03101H05022**Science****Fee: \$10.00****AP Chemistry #****Pre-requisite: Teacher approval****Grade(s): 11, 12**

Following the curricula recommended by the College Board, AP Chemistry usually follows high school chemistry and second-year algebra. Topics covered may include atomic theory and structure; chemical bonding; nuclear chemistry; states of matter; and reactions (stoichiometry, equilibrium, kinetics, and thermodynamics). AP Chemistry laboratories are equivalent to those of typical college courses. *Students will be responsible for purchasing a textbook (new books are approximately \$100) and also take the AP exam at an approximate cost of \$90.*

Course Code: 03106H05012/03106H05022**Science****Fee: \$25.00****AP Environmental Science # – Full Year****Pre-requisite: Biology and Chemistry (or concurrent enrollment in Chemistry)****Grade(s): 11, 12**

AP Environmental Science is designed by the College Board to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems (both natural and human made), evaluate the relative risks associated with the problems, and examine alternative solutions for resolving and/or preventing them. Topics covered include science as a process, ecological processes and energy conversions, earth as an interconnected system, the impact of humans on natural systems, cultural and societal contexts of environmental problems, and the development of practices that will ensure sustainable systems. *Students will be expected to purchase a text and materials at an approximate cost of \$40, and take the AP exam at the cost of approximately \$90.*

Course Codes: 03207H05012/03207H05022**Science****Fee: \$10.00****Physics # – Full Year****Pre-requisite: Algebra 1 w/ a "C" or better, Teacher approval****Grade(s): 10, 11, 12**

Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena. *A basic function calculator is required.*

Course Codes: 03151G05012/03151G05022**Science****Fee: \$10.00**

Physics Honors # – Full Year**Pre-requisite: Algebra 1 w/ a “B” or better****Grade(s): 10, 11, 12**

Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *A TI-83 plus (or higher) calculator is required.*

Course Codes: 03151H05012/03151H05022**Science****Fee: \$10.00****AP Physics C # (Mechanics) – Full Year****Pre-requisite: Physics or Physics – Honors; Calculus****Grade(s): 11, 12**

Designed by the College Board to parallel college-level physics courses that serve as a partial foundation for science or engineering majors, AP Physics C courses primarily focus on mechanics. AP Physics C courses are more intensive and analytical than AP Physics B courses and require the use of calculus to solve the problems posed. *Students will be expected to purchase a text at an approximate cost of \$110, and take the AP exam at the cost of approximately \$90.*

Course Codes: 03156H05014/03156H05024**Science****Fee: \$15.00**

Social Studies

U.S. Government Comprehensive # – One Semester**Pre-requisite: None****Grade(s): 9**

U.S. Government—Comprehensive provides an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. This course may examine the structure and function of state and local governments and may cover certain economic and legal topics.

Course Code: 04151G05011**Social Studies: Civics****U.S. Government Comprehensive (ESL) # – One Semester****Pre-requisite: Teacher approval****Grade: 9**

U.S. Government—Comprehensive provides an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. This course may examine the structure and function of state and local governments and may cover certain economic and legal topics. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Code: 04151G05010**Social Studies: Civics****U.S. Gov Comprehensive Honors # – One Semester****Pre-requisite: Teacher approval****Grade: 9**

U.S. Government—Comprehensive provides an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. This course may examine the structure and function of state and local governments and may cover certain economic and legal topics. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. Advanced research, writing, and reading skills are required.

Course Code: 04151H05011**Social Studies: Civics****World Geography # – One Semester****Pre-requisite: None****Grade(s): 9, 10, 11, 12**

World Geography provides students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the environment; economic development, the interdependence of regions; and the movement of people, goods, and ideas. The new reality of a growing population striving to live in an interconnected world makes the understanding of geography ever more urgent. Material is presented through activities based learning.

Course Code: 04001G05011**Social Studies: Civics****World Geography (ESL) # – One Semester****Pre-requisite: None****Grade(s): 9, 10, 11, 12**

World Geography provides students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the environment; economic development, the interdependence of regions; and the movement of people, goods, and ideas. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development. The new reality of a growing population striving to live in an interconnected world makes the understanding of geography ever more urgent. Material is presented through activities based learning.

Course Code: 04001G05010**Social Studies: Civics**

World Geography Honors # – One Semester**Pre-requisite: Teacher approval****Grade(s): 9, 10, 11, 12**

World Geography provides students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the environment; economic development, the interdependence of regions; and the movement of people, goods, and ideas. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. Advanced research, writing, and reading skills are required.

Course Code: 04001H05011**Social Studies: Civics****Modern U.S. History # – Full Year****Pre-requisite: None****Grade: 10**

Modern U.S. History examines the history of the United States from the Progressive Era through the present time. These courses typically include a historical review of political, military, scientific, economic, and social developments.

Course Codes: 04103G05012/04103G05022**Social Studies: American History****Modern U.S. History (ESL) # – Full Year****Pre-requisite: None****Grade: 10**

Modern U.S. History examines the history of the United States from the Progressive Era through the present time. These courses typically include a historical review of political, military, scientific, economic, and social developments. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Codes: 04103G05010/04103G05020**Studies: American History****Modern U.S. History Honors # – Full Year****Pre-requisite: Teacher approval****Grade: 10**

Modern U.S. History examines the history of the United States from the Progressive Era through the present time. These courses typically include a historical review of political, military, scientific, economic, and social developments. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. Advanced research, writing, and reading skills are required.

Course Codes: 04103H05012/04103H05022**Social Studies: American History****AP U.S. History # - Full Year****Pre-requisite: None****Grade(s): 10, 11, 12**

Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History provides students with the analytical skills and factual knowledge necessary to address critically problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past. Excellent reading and writing skills, along with a strong work ethic and the time to devote to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking, writing, and reading skills. A considerable amount of class-time is spent in critical discussion driven by daily quizzes over assigned reading. In addition, progress in the curriculum will be evaluated through student performance on 20 multiple choice exams, up to nine document based essay questions, and as many as nine additional free response essay questions. *Students will be expected to purchase materials and take the AP exam at the cost of approximately \$90.*

Course Codes: 04104H05012/04104H05022**Social Studies: American History****Fee: \$10.00****World History Overview # – Full Year****Pre-requisite: None****Grade: 11**

World History provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History may include geographical studies, but often these components are not as explicitly taught as geography.

Course Codes: 04051G05012/04051G05022**Social Studies: World History****World History Overview (ESL) # – Full Year****Pre-requisite: None****Grade: 11**

World History provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History may include geographical studies, but often these components are not as explicitly taught as geography. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Codes: 04051G05010/04051G05020**Social Studies: World History****AP European History # – Full Year****Pre-requisite: Teacher approval****Grade(s): 11, 12**

Following the College Board's suggested curriculum designed to parallel college-level European History courses, AP European History examines European civilization from the High Renaissance period to the recent past and also expose students to the factual narrative. In addition, this course helps students develop an understanding of some of the principal themes in modern European history and the abilities to analyze historical evidence and to express that understanding and analysis in writing. *Students will be expected to purchase a textbook for approximately \$70 and take the AP exam at the cost of approximately \$90.*

Course Codes: 04056H05012/04056H05022**Social Studies: World History****Fee: \$10**

AP U.S. Government and Politics # – One Semester**Pre-requisite:** Civics, Teacher approval**Grade(s):** 11, 12

Following the College Board's suggested curriculum designed to parallel college-level U.S. Government and Politics courses, this course provides students with an analytical perspective on government and politics in the United States, involving both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. The course generally covers the constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, and civil rights and liberties. *Students will need to purchase materials and take the AP exam at the cost of approximately \$90.*

Course Code: 04157H05011**Fee:** \$10**Social Studies:** Civics**Economics # – One Semester****Pre-requisite:** None**Grade:** 12

Economics provides students with an overview of economics with primary emphasis on the principles of microeconomics, macroeconomics and the U.S. economic system. The course may also cover topics such as international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

Course Code: 04201G05011**Social Studies:** Economics**Economics (ESL) # – One Semester****Pre-requisite:** None**Grade:** 12

Economics provides students with an overview of economics with primary emphasis on the principles of microeconomics, macroeconomics and the U.S. economic system. The course may also cover topics such as international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both. This course will be taught using sheltered instructional methods and strategies which make the subject matter concepts comprehensible to linguistically diverse students while simultaneously promoting the students' English language development.

Course Code: 04201G05010**Social Studies:** Economics**AP Microeconomics # – One Semester****Pre-requisite:** Concurrent enrollment in AP Macroeconomics**Grade(s):** 11, 12

Following the College Board's suggested curriculum designed to parallel college-level microeconomics, AP Microeconomics courses provide students with a thorough understanding of the principles of economics that apply to the functions of individual decision-makers (both consumers and producers). They place primary emphasis on the nature and functions of product markets, while also including a study of factor markets and the role of government in the economy. *Students will be expected to purchase a textbook at the approximate cost of \$35 and take the AP exam at the cost of approximately \$90.*

Course Code: 04203H05011**Social Studies:** Economics**Fee:** \$10.00**AP Macroeconomics # – One semester****Pre-requisite:** Concurrent enrollment in AP Microeconomics**Grade(s):** 11, 12

Following the College Board's suggested curriculum designed to parallel college-level macroeconomics, AP Macroeconomics courses provide students with a thorough understanding of the principles of economics that apply to an economic system as a whole. They place particular emphasis on the study of national income and price determination and developing students' familiarity with economic performance measures, economic growth, and international economics. *Students will be expected to take the AP exam at the cost of approximately \$90.*

Course Code: 04204H05011**Social Studies:** Economics**Psychology – One Semester****Pre-requisite:** None**Grade(s):** 11, 12

Psychology introduces students to the study of individual human behavior. Course content typically includes, but is not limited to an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology. Special attention will also be paid to students reflecting on their own behaviors and beliefs.

Course Code: 04254G05011**Elective Social Studies****World People Studies (Women in History) # – One Semester****Pre-requisite:** None**Grade(s):** 11, 12

World People Studies allows students to study various types of subgroups that have something in common such as religion, gender, or culture. Similar in style to World Area Studies, but focusing on a group of people rather than on a specific region, this course examines a subgroup's history, politics, economics, and/or culture. This course will be an in-depth study of the roles of women throughout history using a social, economic, and political model. Students will investigate the roles of women throughout the world and throughout the ages. Beginning with prehistory, the early matriarchal societies and the influence of the concept of the goddess, the course will then follow into more specific women involved in history. The role of women in social and natural sciences will also be covered through religion, government, physics, mathematics, etc.

Course Code: 04062G05011**Elective: Social Studies****Sociology – One Semester****Pre-requisite:** None**Grade(s):** 11, 12

Sociology introduces students to the study of human behavior in society. The course provides an overview of sociology, generally including, but not limited to topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

Course Code: 04258G05011**Elective: Social Studies****AP Psychology # – Full Year****Pre-requisite:** Teacher approval**Grade(s):** 11, 12

Following the College Board's suggested curriculum designed to parallel a college-level psychology course, AP Psychology courses introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals, expose students to each major subfield within psychology, and enable students to examine the methods that psychologists use in their science and practice. Students will develop an appreciation of psychology both as an academic discipline and as a body of knowledge that is relevant to the student's own life. *Students will be expected to purchase a textbook at the approximate cost of \$80 and take the AP exam at the cost of approximately \$90.*

Course Codes: 04256H05012/04256H05022**Elective: Social Studies****Fee:** \$10.00

World Languages

French

French I # – Full Year

Pre-requisite: None

Grades: 9, 10, 11, 12

Designed to introduce students to French language and culture, French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is introduced through the art, literature, customs, and history of the French-speaking people. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06121G05014/06121G05024
World Language

French I Honors # – Full Year

Pre-requisite: 0-1 year of French; Teacher approval

Grade(s): 9, 10, 11, 12

Designed to introduce students to French language and culture, French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is introduced through the art, literature, customs, and history of the French-speaking people. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *Students will be responsible for purchasing a workbook at a cost of approximately \$20. This course will cover two years of French studies*

Course Codes: 06121H05012/06121H05022
World Language

French II # – Full Year

Pre-requisite: French I

Grade(s): 9, 10, 11, 12

French II courses build upon skills developed in French I, extending students' ability to understand and express themselves in French and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of French speaking people to deepen their understanding of the culture(s). *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06122G05012/06122G05022
World Language

French II Honors # – Full Year

Pre-requisite: 2 years of French or completion of French I Honors

Grade(s): 9, 10, 11, 12

French II courses build upon skills developed in French I, extending students' ability to understand and express themselves in French and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of French speaking people to deepen their understanding of the culture(s). The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the course. *Students will be responsible for purchasing a workbook at a cost of approximately \$20. Students will move into French IV or IB French I after successful completion of this course.*

Course Codes: 06122H05012/06122H05022
World Language

French III # – Full Year

Pre-requisite: French II

Grade(s): 9, 10, 11, 12

French III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06123G05012/06123G05022
World Language

French IV # – Full Year

Pre-requisite: French III or French II Honors

Grade(s): 9, 10, 11, 12

French IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the French language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06124G05012/06124G05022
World Language

AP French Language # – Full Year

Pre-requisite: Teacher Approval

Grade(s): 9, 10, 11, 12

Designed to parallel third-year college-level courses in French Composition and Conversation, AP French Language courses build upon prior knowledge and develop students' ability to understand others and express themselves (in French) accurately, coherently, and fluently. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films and television productions, etc. *Students will be responsible for purchasing a workbook at a cost of approximately \$20 and will take the AP French exam at an approximate cost of \$90.*

Course Codes: 06132H05012/06132H05022
World Language

French Literature - Full Year
Pre-requisite: Teacher Approval
Grade(s): 12

Course Codes: 06129G05012/06129G05022
World Language

French Literature courses place an emphasis on reading, understanding, and reacting in writing to literature written in French.

German

German I # – Full Year
Pre-requisite: None
Grade(s): 9, 10, 11, 12

Course Codes: 06201G05012/06201G05022
World Language

Designed to introduce students to German language and culture, German I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. German culture is introduced through the art, literature, customs, and history of the German-speaking people. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

German II # – Full Year
Pre-requisite: German I
Grade(s): 9, 10, 11, 12

Course Codes: 06202G05012/06202G05022
World Language

German II courses build upon skills developed in German I, extending students' ability to understand and express themselves in German and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of German speaking people to deepen their understanding of the culture(s). *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

German III # (Course will not be offered until 2012-2013) – Full Year
Pre-requisite: German II
Grade(s): 10, 11, 12

Course Codes: 06203G05012/06203G05022
World Language

German III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

German IV # (Course will not be offered until 2013-2014) – Full Year
Pre-requisite: German III
Grade(s): 11, 12

Course Codes: 06204G05012/06204G05022
World Language

German IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the German language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Spanish

Spanish I # – Full Year
Pre-requisite: None
Grade(s): 9, 10, 11, 12

Course Codes: 06101G05012/06101G05022
World Language

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Spanish I Honors # – Full Year
Pre-requisite: 0-1 year of Spanish; Teacher approval
Grade(s): 9, 10, 11, 12

Course Codes: 06101H05012/06101H05022
World Language

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *Students will be responsible for purchasing a workbook at a cost of approximately \$20. This course will cover one and a half years of Spanish studies.*

Spanish II # – Full Year
Pre-requisite: Spanish I
Grade(s): 9, 10, 11, 12

Course Codes: 06102G05012/06102G05022
World Language

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish speaking people to deepen their understanding of the culture(s). *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Spanish II Honors # – Full Year**Pre-requisite: Spanish Honors I or 2 years of Spanish****Grade(s): 9, 10, 11, 12**

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish speaking people to deepen their understanding of the culture(s). The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *Students will be responsible for purchasing a workbook at a cost of approximately \$20. This course will cover one and a half years of Spanish studies. Students will move into Spanish IV or IB Spanish I after successful completion of this course.*

Course Codes: 06102H05012/06102H05022**World Language****Spanish III # – Full Year****Pre-requisite: Spanish II****Grade(s): 9, 10, 11, 12**

Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06103G05012/06103G05022**World Language****Spanish IV # – Full Year****Pre-requisite: Spanish III or Spanish Honors II****Grade(s): 10, 11, 12**

Spanish IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06104G05012/06104G05022**World Language****Spanish for Native Speakers # – 2 Full Year Courses****Pre-requisite: Teacher approval****Grade(s): 9, 10, 11, 12**

Spanish for Native Speakers courses support, reinforce, and expand students' knowledge of their own tongue. Because students understand at least the rudiments and structure of the language and have a working vocabulary (to a greater or lesser degree), Spanish for Native Speakers courses often move faster than do regular Spanish foreign language courses and emphasize literary development (with a study of literature and composition). These courses may also include the culture or history of the people and introduce translation skills.

Course Codes: 06106G05014/06106G05024**06106G05034/06106G05044****World Language****AP Spanish Language # – Full Year****Pre-requisite: Spanish IV****Grade(s): 11, 12**

Designed by the College Board to parallel third-year college-level courses in Spanish Composition and Conversation, AP Spanish Language courses build upon prior knowledge and develop students' ability to understand others and express themselves (in Spanish) accurately, coherently, and fluently in both formal and informal situations. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films and television productions, etc. *Students will be responsible for purchasing a workbook at a cost of approximately \$20 and will take the AP exam in the spring at a cost of approximately \$90.*

Course Codes: 06112H05012/06112H05022**World Language****Spanish I Modified****Pre-requisite: Teacher approval****Grade(s) 10, 11, 12**

This course is designed for students who have difficulty learning a foreign language. It will be taught using methods recommended for students with such difficulty. This course will introduce grammatical structures more slowly, more selectively and with more opportunity for practice. This course includes listening, speaking, reading and writing at an introductory level. This course does meet the graduation requirement. Students completing this course will achieve a novice-low proficiency. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06101B05012/06101B05012**World Language****Spanish II Modified****Pre-requisite: Teacher approval****Grade(s) 11, 12**

This course builds on skill acquired on Modified Spanish 1 and is designed for students who have difficulty learning a foreign language. It will be taught using methods recommended for students with such difficulty. This course will introduce grammatical structures more slowly, more selectively and with more opportunity for practice. This course includes listening, speaking, reading and writing at an introductory-mid level. This course does meet the graduation requirement. Students completing this course will achieve a novice-mid proficiency. *Students will be responsible for purchasing a workbook at a cost of approximately \$20.*

Course Codes: 06102B05012/06102B05022**World Language**

ACE

The ACE Program is teacher designed for students who have experienced limited success in earning high school credits due to personal, academic, or attendance problems. Counselors or administrators refer students to ACE. Typically an ACE student will have a period of ACE Class plus an additional period of ACE Lab. In addition, students will earn a job credit through Employability Skills. The work experience is a 15-hour per week work requirement for all ACE students. In the program students work independently to earn academic credits required for a Lakewood High School diploma.

Employability Skills – One Semester**Pre-requisite:****Grade(s): 11, 12**

For Employability Skills, students work in the school or outside of the school building under the close supervision of a teacher during a regular class period to learn basic work skills. This may include running a classroom business, being a student assistant, working in the cafeteria, working in the community in a small group, community service activities like working in a food bank or running their own small businesses.

Course Code: 22152G05011**Fine Arts/CTE****Diversified Occupations – 2 Full Year Courses****Pre-requisite:****Grade(s): 11, 12**

Miscellaneous Diversified Occupations helps students enter the workforce through career exploration, job search and application, and the development of positive work attitudes and work-related skills. These courses typically cover such topics as career planning and selection, money management, communication skills, interpersonal business relationships and behaviors, and personal responsibility. Employment may be a required component of these courses, or students may be required to enroll concurrently in a work experience course.

Course Codes: 22153G05014/22153G05024**22153G05034/22153G05044****Fine Arts/CTE**

Special Electives

Miscellaneous-Aide – One Semester**Pre-requisite: Approved Contract****Grade(s): 11, 12**

Miscellaneous—Aide courses offer students the opportunity to assist instructors in preparing, organizing, or delivering course curricula or to assist other staff members in fulfilling their duties. Students may provide tutorial or instructional assistance to other students.

Course Code: 22995G00011**Elective****Tutoring Practicum – Full Year****Pre-requisite: Counselor approval****Grade(s): 11, 12**

Tutoring Practicum courses provide students with the opportunity to offer tutorial assistance to their peers or to younger students. After an initial training period during which students learn how to work with other students and how to make use of the available resources (e.g., staff, written material, audiovisual aids, and so on), students engage in tutoring and assisting others who need or request help.

Course Code: 22054G05012/22054G05022**Elective****Internship – One Semester****Pre-requisite: Counselor approval****Grade(s): 9, 10, 11, 12**

The Executive High School Internship (EHSI) program offers seniors from Jefferson County high schools an opportunity to earn high school credit and gain experience in a chosen professional/technical career under the supervision of an experienced employer before going to college. Interns are accepted after completing an application/interview process in the spring of their junior year. Interns complete 100 hours of non-paid intern experience for .5 elective credits during a semester of their senior year.

Course Code: 99420G05011**Elective****Leadership – Full Year****Pre-requisite: Elected by student body****Grade(s): 9, 10, 11, 12**

Leadership courses are designed to strengthen students' personal and group leadership skills. Typically intended for students involved in extracurricular activities (especially as officers of organizations or student governing bodies), these courses may cover such topics as public speaking, effective communication, human relations, parliamentary law and procedures, organization and management, and group dynamics. Our Student Senate is an elected group representing the student body. All senators (except freshmen) are elected in May for the following year. Freshmen are elected in December for the second semester.

Course Code: 22101G05012/22101G05022**Elective****Workplace Experience – Full Year****Pre-requisite:****Grade(s): 9, 10, 11, 12**

Workplace Experience courses provide students with work experience in a field related to their interests. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Credit is awarded based on completion of required paperwork and supervisor(s) evaluation(s).

Course Code: 22998G05012/22998G05022**Fine Arts/CTE****Fee:****Outdoor Lab****Prerequisite: Counselor approval, completed application, and interview. 2.5 GPA w/ good attendance****Grade(s): 11, 12**

Juniors and seniors who assist elementary schools as high school leaders at one of the Outdoor Education Laboratory Schools for one week receive one-half credit for their experience. Students will work with elementary classroom teachers during planning and preparation, must attend an on-site High School Leaders Training Workshop, and will assist with teaching small groups of sixth graders, supervising dormitory/cabin and cafeteria activities, and carrying out other duties during the week on-site. Community Service or CAS credit may be given in lieu of academic credit. A mandatory annual recruitment meeting will be in April for leaders for the following school year.

POST SECONDARY ENROLLMENT OPTIONS

Juniors and seniors are eligible to apply for college courses. Each student considering enrollment in postsecondary courses will meet with his/her counselor to discuss whether the student is in need of course work at a higher level than what is available at the student's school. A student must be pre-approved at least 60 days prior to the anticipated college enrollment on forms *provided by the high school or online*.

Students who are enrolled in post-secondary courses pursuant to this policy shall be required to pay tuition for up to two courses per academic term, approved in advance, for high school credit. Upon satisfactory completion of the course(s), the district will reimburse the student the cost of the tuition. Students are responsible for all other expenses related to the enrollment in the course, and the district shall not provide or pay for any related materials or transportation.

International Baccalaureate

The INTERNATIONAL BACCALAUREATE Diploma program is a rigorous pre-university course of study, leading to examinations, that meets the needs of the highly motivated students. Designed as a comprehensive curriculum that allows its graduates to fulfill requirements of the various national systems of education, the IB is based on the pattern of no single country. It provides students of different linguistic, cultural, and educational backgrounds with the intellectual, social and critical perspectives necessary for the adult world. The comprehensive IB program provides students with a balanced education in all the main disciplines: languages, social sciences, experimental sciences, mathematics, and elective subjects. The intent is that students should learn how to learn, how to analyze, how to reach considered conclusions about people, their languages and literature, their ways in society, and the scientific forces of the environment. Lakewood High School offers a four-year curriculum: two years in IB Prep and two years in a college level curriculum which challenges Jefferson County's best scholars and promotes international understanding. Successful completion earns the student an IB Diploma.

The IB Examination General Scheme

The IB Diploma is awarded for satisfactory performance in six subjects, one chosen from each of the following six groups:

1. **Language A: English.** This includes the study of World Literature in translation.
2. **Language B:** Spanish or French
3. **Study of Individuals in Society:** World History
4. **Experimental Sciences:** Biology, Chemistry, or Physics
5. **Mathematics:** Math Studies, Math SL or Math HL
6. **An IB elective course**

Three of these six subjects must be taken for examination at higher level and three at the standard level.

All Diploma Candidates must also:

- Follow an interdisciplinary course in the Theory of Knowledge; submit an Extended Essay in an IB subject; and undertake creative, action and service activities (CAS) totaling 200 hours.
- Fulfill the Jefferson County Graduation Requirements.

For information, contact the IB office at 303.982.7182.

Group 1: Language A 1

English/Language Arts 9 Honors (IB Prep) # - Full Year
Pre-requisite: Acceptance into the IB Prep Program
Grade: 9

Course Code: 01001H05032/01001H05042
English Language Arts

English/Language Arts 9 incorporates the five aspects of language arts: reading, writing, speaking, listening, and viewing. The study of genres leads to written compositions that build upon students' prior knowledge of grammar, vocabulary, word usage, and mechanics. Students apply comprehension and critical reading skills to both literature and nonfiction. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *Students may be required to pay for some supplies and activities.*

English/Language Arts 10 Honors (IB Prep) # – Full Year
Pre-requisite: English Language Arts Honors 9 (IB Prep)
Grade: 10

Course Codes: 01002H05032/01002H05042
English Language Arts for IB Prep

English/Language Arts 10 offers a balanced focus on composition and literature. Students read widely to improve their reading rate, vocabulary, and comprehension and develop skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. Students apply knowledge of purposes and audiences by studying and producing various genres. Oral communication is practiced in group settings as well through presentations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. This is an expanded curriculum version of English/Language Arts 10 with a specific focus on American Literature as an agent of change as well as a reflection of American culture. *Students may be required to pay for some supplies and activities. Students are expected to purchase a literature book for approximately \$80 to be used for three years.*

IB Language 11 (English) # – Full Year
Pre-requisite: Acceptance into IB Program
Grade: 11

Course Codes: 01007H05014/01007H05024
English Language Arts

IB Language A (English 11) prepares students to take the International Baccalaureate Language A exams at the Higher level. Course content includes in-depth study of literature chosen from the appropriate IB list of texts and authors and written analyses of this literature, in addition to other oral and written assignments. All course content is designed to improve students' accuracy and fluency in the English language. *Students may be required to pay for some supplies and activities. Some paperback books will need to be purchased for approximately \$40.*

IB Language 12 (English) # – Full Year
Pre-requisite: IB Language 11 (English)
Grade: 12

Course Codes: 01007H05034/01007H05044
English Language Arts

IB Language A (English 12) extends learning from English 11 and prepares students to take the International Baccalaureate Language A exams at the Higher level. Course content includes oral and written assignments and in-depth study of literature chosen from the appropriate IB list of texts and authors and written analyses of this literature. All course content is designed to improve students' accuracy and fluency in the English language. *Students may be required to pay for some supplies and activities.*

Group 2: Language B

French

French I Honors # – Full Year

Pre-requisite: 0-1 year of French; Teacher approval

Grade: 9,

Designed to introduce students to French language and culture, French I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is introduced through the art, literature, customs, and history of the French-speaking people. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Students will be responsible for purchasing a workbook at a cost of approximately \$20. This course will cover two years of French studies

Course Codes: 06121H05012/06121H05022
World Language

French II Honors # – Full Year

Pre-requisite: 2 years of French or completion of French I Honors

Grade(s): 9, 10,

French II courses build upon skills developed in French I, extending students' ability to understand and express themselves in French and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of French speaking people to deepen their understanding of the culture(s). The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *Students will be responsible for purchasing a workbook at a cost of approximately \$20. Students will move into French IV or IB French I after successful completion of this course.*

Course Codes: 06122H05012/06122H05022
World Language

IB Language B – French # – 2 Full Years

Pre-requisite: French II Honors

Grade(s): 10, 11, 12

IB Language B—French courses prepare students to take the International Baccalaureate Language B exams at either the Standard or Higher level. These courses focus on improving students' accuracy and fluency in oral and written communication. Students preparing to take the Standard level exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed. *Students will be responsible for purchasing a workbook each year at a cost of approximately \$20 each.*

Course Codes: 06131H05014/06131H05024
06131H05034/06131H05044
World Language

Spanish

Spanish I Honors # – Full Year

Pre-requisite: 0-1 year of Spanish

Grade(s): 9

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Students will be responsible for purchasing a workbook at a cost of approximately \$20. This course will cover one and a half years of Spanish studies.

Course Codes: 06101H05012/06101H05022
World Language

Spanish II Honors # – Full Year

Pre-requisite: Spanish Honors I or 2 years of Spanish

Grade(s): 9, 10, 11, 12

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish speaking people to deepen their understanding of the culture(s). The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *Students will be responsible for purchasing a workbook at a cost of approximately \$20. This course will cover one and a half years of Spanish studies. Students will move into Spanish IV or IB Spanish I after successful completion of this course.*

Course Codes: 06102H05012/06102H05022
World Language

IB Language B—Spanish # – 2 Full Years

Course Codes: 06111H05014/06111H05024
06111H05034/06111H05044

Pre-requisite: Acceptance in the IB program, Spanish II - Honors

World Language

Grade(s): 10, 11, 12

IB Language B—Spanish courses prepare students to take the International Baccalaureate Language B exams at either the Standard or Higher level. These courses focus on improving students' accuracy and fluency in oral and written communication (usually in the students' exam will be able to understand native speakers; students preparing for the Higher level exam will be able to communicate fluently at native speed. *Students will be responsible for purchasing a workbook at a cost of approximately \$35. Book will be used for both years of IB Spanish.*

Group 3: Individuals & Societies

U.S. Gov Comprehensive Honors # – One Semester

Course Code: 04151H05021

Pre-requisite: Acceptance into the LHS IB Prep Program

Social Studies: Civics

Grade: 9

U.S. Government—Comprehensive provides an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. This course may examine the structure and function of state and local governments and may cover certain economic and legal topics. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Economics - Honors # - One Semester

Course Code: 04201H05011

Prerequisite: Acceptance into the LHS IB Prep Program

Grade: 9

This course provides students with an overview of economics with a primary emphasis on the principles of microeconomics and the U.S. economic system. Topics will include principles of macroeconomics, international economics, and comparative economics. Economic principles will be presented in both formal theoretical contexts and applied contexts.

AP U.S. History #- Full Year

Course Codes: 04104H05012/04104H05022

Pre-requisite: None

Social Studies: American History

Grade(s): 10, 11, 12

Fee: \$10.00

Following the College Board's suggested curriculum designed to parallel college-level U.S. History courses, AP U.S. History provides students with the analytical skills and factual knowledge necessary to address critically problems and materials in U.S. history. Students learn to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. The course examines the discovery and settlement of the New World through the recent past. Excellent reading and writing skills, along with a strong work ethic and the time to devote to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking, writing, and reading skills. A considerable amount of class-time is spent in critical discussion driven by daily quizzes over assigned reading. In addition, progress in the curriculum will be evaluated through student performance on 20 multiple choice exams, up to nine document based essay questions, and as many as nine additional free response essay questions. *Students will be expected to purchase materials and take the AP exam at the cost of approximately \$90.*

IB History # – 2 Full Year Courses

Course Codes: 04054H05014/04054H05024
04054H05034/04054H05044

Pre-requisite: Acceptance into IB program

Social Studies: World History

Grade(s): 11, 12

Social Studies IB History prepares students to take the International Baccalaureate History exam at the Higher level. In this course, students study political, military, economic, social, and cultural trends and explore the nature of historical documentation and the methods used by historians. The IB History course surveys 20th-century topics in an international context; provides a detailed regional study of a major area (Africa, Europe, the Americas, West and South Asia, East and Southeast Asia, or Australia); and enables students to undertake individual study on a subject of interest in greater detail and depth. *Students will study European History at the junior level and 20th Century History at the senior level.*

Group 4: Experimental Sciences

Biology/Earth Science Honors # – Full Year

Course Codes: 03051H05032/03001H05042

Pre-requisite: Acceptance into the IB Prep Program

Science

Grade: 9

Biology is designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Earth Science offers insight in to the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Chemistry Honors # (IB Prep) – Full Year**Pre-requisite:** Teacher approval**Grade:** 10

Chemistry involves studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course.

Course Codes: 03101H05032/03101H05042**Science****Fee:** \$10.00**IB Biology # – 2 Full Year Courses****Pre-requisite:** Honors Biology; Acceptance into IB Program**Grade(s):** 11, 12

IB Biology courses prepare students to take the International Baccalaureate Biology exams at the Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Biology promotes understanding of the facts, principles, and concepts underlying the biological field; critical analysis, evaluation, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of biology and scientific advances in biology upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes study of living organisms from the cellular level through functioning entities within the biosphere. Laboratory experimentation is an essential component of these courses. *Students are required to purchase their textbook at the approximate cost of \$100 which is used for two years, and two workbooks at the approximate cost of \$36.*

Course Codes: 03057H05014/03057H05024

03057H05034/03057H05044

Science**Fee:** \$25.00**IB Chemistry # – 2 Full Year Courses****Pre-requisite:** Chemistry Honors; Acceptance into IB Program**Grade(s):** 11, 12

IB Chemistry prepares students to take the International Baccalaureate Chemistry exams at either the Standard or Higher level. In keeping with the general aim of IB Experimental Sciences courses, IB Chemistry promotes understanding of the facts, patterns, and principles underlying the field of chemistry; critical analysis, evaluation, prediction, and generation of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of chemistry and scientific advances in chemistry upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of the materials of the environment, their properties, and their interaction. Laboratory experimentation is an essential part of these courses. *Students are required to purchase a textbook at an approximate cost of \$100 which will be used for two years and a workbook at the approximate cost of \$40.*

Course Codes: 03107H05014/03107H05024

03107H05034/03107H05044

Science**Fee:** \$25.00**IB Physics # – 2 Full Year Courses****Pre-requisite:** none; Chemistry Honors may be taken concurrently**Grade(s):** 10, 11, 12

IB Physics prepares students to take the International Baccalaureate Physics exams at the Standard level. In keeping with the general aim of IB Experimental Sciences courses, IB Physics promotes understanding of the facts, patterns, and principles underlying the field of physics; critical analysis, prediction, and application of scientific information and hypotheses; improved ability to communicate scientific ideas; and an awareness of the impact of scientific advances in physics upon both society and issues of ethical, philosophical, and political importance. Course content varies, but includes the study of the fundamental laws of nature and the interaction between concepts of matter, fields, waves, and energy. Laboratory experimentation is essential; calculus may be used in some courses. *Students are required to purchase their textbook at the approximate cost of \$100 which is used for two years.*

Course Codes: 03157H05014/03157H05024

03157H05034/03157H05044

Science**Fee:** \$10.00

Group 5: Mathematics

Geometry – Honors # (IB Prep) - Full Year**Prerequisite:** Acceptance into the LHS IB Prep Program; Algebra I**Grade:** 9

Students in this course will study the content of a full course in geometry with additional algebra topics. Topics include angle relationships, lines in a plane, triangles, polygons, similarity, transformations, circles, measurement, patterns and recursion, data analysis, and linear models and systems. *A TI-83 plus or TI-84 calculator is mandatory for daily use and will be used for four years.*

Course Codes: 02072H05032/02072H05042**Mathematics Geometry or Higher****Algebra II Honors # (IB Prep) – Full Year****Pre-requisite:** Algebra I and Geometry; Teacher approval**Grade(s):** 9, 10

This course follows the Algebra 2 district approved curriculum and counts as a third year of graduation requirements. Algebra 2 topics include operations with rational and irrational expressions, in-depth study of linear equations and inequalities, analyzing and solving quadratic functions including complex numbers, solving systems of linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents. Students investigate and solve linear piece wise, absolute value, cubic, radical, exponential, logarithmic, and rational functions algebraically, numerically, and graphically, with and without a graphing calculator. Students analyze data and develop mathematical models to address real world problem situations. The honors course prepares students for advanced course work and engages students in enrichment opportunities. Rigor is demonstrated through sophistication and acceleration in terms of thought-provoking learning activities, challenging assessments, and more complex text/materials. Diverse interests, cultures, perspectives, learning styles, and intelligences are cultivated and higher level critical and creative thinking skills such as interpretation, problem-solving, investigation, and logic are emphasized throughout the honors course. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02056H05032/02056H05042**Mathematics: Geometry or Higher**

IB Mathematical Studies I # – Full Year**Pre-requisite:** Honors Algebra II (IB Prep), Teacher approval**Grade(s):** 10, 11, 12

This course prepares students for the IB Math Studies exam at the Standard Level. Intended to provide students with the skills to cope with the mathematical demands of a technological society, course topics include linear, quadratic, and exponential functions, solutions, and graphs; skills in computation, estimation, and development of algorithms; data analysis, including collection, calculation, and presentation of statistics; set operations and logic; business techniques, including progressions and linear programming; and geometry and trigonometry. Students will acquire the necessary skills to conduct an internal assessment during the second year. *A TI-83 Plus or TI-84 series is required. Students will purchase a textbook (used for two years) at an approximate cost of \$40.*

Course Codes: 02131H05014/02131H05024**Mathematics:** Geometry or Higher**IB Mathematical Studies II # – Full Year****Pre-requisite:** IB Mathematical Studies I**Grade(s):** 11, 12

This course is a continuation of Math Studies I. Topics include advanced statistics, probability, trigonometry, financial mathematics, logic, set theory, sequences and series, and a thorough introduction to differential calculus. In addition, students will prepare an internal assessment on a mathematical topic of their own choosing. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02131H05034/02131H05044**Mathematics:** Geometry or Higher**IB Mathematics SL I # – Full Year****Pre-requisite:** Honors Algebra II (IB Prep), Teacher approval**Grade(s):** 10, 11, 12

This course is intended for IB students who do wish to pursue a field of study in college that requires a strong calculus background. Topics include operations and properties of number sets; trigonometric functions, equations, and graph; algebra and coordinate geometry; simultaneous linear equations; polynomial and quadratic functions and equations; calculus, including bilinear, exponential and logarithmic functions; two dimensional vectors and matrices; and probability. In addition, students will begin their portfolio for their internal assessment. *A TI-83 Plus or TI-84 series is required. Students will purchase a textbook (used for two years) at an approximate cost of \$40.*

Course Codes: 02132H05018/02132H05028**Mathematics:** Geometry or Higher**IB Mathematics SL II # – Full Year****Pre-requisite:** IB Mathematics SL I**Grade(s):** 11, 12

This course is a continuation of IB Math I and includes a full calculus curriculum. In addition, students will complete their portfolio of work for their internal assessment. Students will take the IB Math exam at the end of the second semester. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02132H05038/02132H05048**Mathematics:** Geometry or Higher**IB Mathematics HL I # – Full Year****Pre-requisite:** IB Mathematics SL I**Grade:** 11

This course is intended for IB students who are exceptionally gifted in mathematics. Students must be competent in a wide range of analytical and technical skills. A wide range of mathematics will be developed in a rigorous and comprehensive fashion. This course includes a thorough calculus curriculum and many other advanced topics. In addition, students will begin their portfolio for their internal assessment. Students may take the AP Calculus BC test upon completion of this course. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02132H05058/02132H05068**Mathematics:** Geometry or Higher**IB Mathematics HL II # – Full Year****Pre-requisite:** IB Mathematics HL I**Grade:** 12

This course is a continuation of IB Mathematics HL I. Students will be prepared to take the IB Math exam at the Higher Level upon completion. A wide range of mathematical topics will be explored with rigor and depth including geometry; statistics and probability; sets, relations and groups; series and differential equations; and discrete mathematics. In addition, students will complete a comprehensive portfolio of work for internal assessment. *A TI-83 Plus or TI-84 series is required.*

Course Codes: 02132H05078/02132H05088**Mathematics:** Geometry or Higher

Group 6: Sixth Subjects

IB Art/Design – Full Year**Pre-requisite:** Creative Art – Drawing/Painting; Teacher Approval**Grade(s):** 11, 12

IB Art/Design prepares students to take the International Baccalaureate Art/Design exams at either the Standard or Higher level. The IB Art/Design course helps develop students' aesthetic and creative faculties, offers training in awareness and criticism of art, and enables students to create quality works of art of their own. Students perform both studio and research work; the research component is designed to investigate particular topics or concepts of interest in further detail. *The final exam in April demonstrates the culmination of a cohesive body of work in an art exhibition and oral exam. A textbook is required and students may have to purchase additional materials.*

Course Codes: 05173H05014/05173H05024**Elective:** Art**Fee:** \$60.00**IB Theater Arts – Full year****Pre-requisite:** Teacher approval**Grade(s):** 11, 12

Students will understand the nature of the theater through study and performance. Students will learn of the major developments and techniques in the history of more than one culture, interpret and illuminate play scripts, understand the art of the stage, perform before an audience, produce work in at least one of the theatrical arts or crafts, understand the processes of theatrical production, and do a theatrical research project. Students in this class will be prepared to take the International Baccalaureate Theater Arts exam at the Standard Level.

Course Codes: 99805H05014/99805H05024**Elective:** Language Arts**IB Music – Full Year****Pre-requisite:** Success in an instrumental or vocal music class; must know all major & minor keys**Grade(s):** 11, 12

IB Music prepares students to take the International Baccalaureate Music exam at the Standard level. IB Music courses develop students' knowledge and understanding of music through training in musical skills (listening, performing, and composing); exposure to music theory; and formulation of an historic and global awareness of musical forms and styles. Historical, theoretical, and practical studies are suggested by the IB Curriculum Board. *Students will be required to purchase books and materials at an approximate cost of \$65.*

Course Codes: 05115H05014/05115H05024**Fine Arts/CTE**

IB Economics # – Full Year**Pre-requisite: Acceptance into the IB program****Grade(s): 11, 12**

IB Economics prepares students to take the International Baccalaureate Economics exam at the Standard level. The course provides students with the basic tools of economic reasoning and teaches them to use those tools to explain or interpret economic problems. Course content includes resource allocation under various systems, national income analysis, international economics, and economic development and growth and may also cover income distribution. Students will be expected to purchase a textbook at an approximate cost of \$65.

Course Codes: 04206H05014/04206H05024**Social Studies: Economics****IB Psychology # – Full Year****Pre-requisite: Concurrent enrollment in Forensic Speech-Inclusive****Grade(s): 11, 12**

IB Psychology courses prepare students to take the International Baccalaureate Psychology exams at the Standard level. Course content includes developmental and social psychology, cognition and learning, and personality subject areas, which are approached from biological/physiological, behavioral, and humanistic points of view. These courses may include a study of research design and statistics and involve practical work in psychological research. *Students will be expected to purchase the textbook at an approximate cost of \$65.*

Course Codes: 04257H05014/04257H05024**Elective: Social Studies****IB Philosophy # – Full Year****Pre-requisite: Concurrent enrollment in Forensic Speech - Inclusive****Grade(s): 11, 12**

IB Philosophy prepares students to take the International Baccalaureate Philosophy exam at either the Subsidiary or Higher levels. The course challenges students to reflect upon and question the bases of knowledge and experience, to develop a personal mode of thought, to formulate rational arguments, and to use language to examine several conceptual themes in a thoughtful, philosophical manner. *The content of this course is integrated with the Forensic Speech-Inclusive curriculum.*

Course Codes: 04309H05014/04309H05024**Elective: Social Studies****IB Business and Management – Full Year****Pre-requisite: Teacher approval****Grade(s): 11, 12**

IB Business and Management courses prepare students to take the International Baccalaureate Business and Management exam at the Standard level. In keeping with Individual and Society courses, IB Business and Management promotes problem-solving by identifying the problem, selecting and interpreting data, applying appropriate analytical tools, and recommending solutions by evaluating their quantitative and qualitative implications. This course also equips students with knowledge and understanding of business terminology, concepts and principles. *Students will be expected to purchase a textbook for the course at an approximate cost of \$60.*

Course Codes: 12059H05014/12059H05024**Fine Arts/CTE****IB Design Technology (Introduction to Engineering Design)****Pre-requisite: Teacher approval****Grade(s): 11, 12**

IB Design Technology teaches problem-solving skills using a design development process. Models of product solutions are created analyzed and communicated using solid modeling computer design software. In NYS, Circuit test the course is called Design and Drawing for Production and follows the syllabus developed by the State Education Department. This course will prepare students to take the International Baccalaureate IB Design Technology exam at the Standard level. *Eligible juniors and seniors who complete this course may receive college engineering credit from the Rochester Institute of Technology or the University of Colorado/CO Springs (3 credits).*

Course Code: 03206H05014/03206H05024**Science****Fee: \$50.00 per year**

Theory of Knowledge

IB Theory of Knowledge # – Two one semester courses**Pre-requisite: Acceptance into IB program****Grade(s): 11, 12**

Obligatory for every International Baccalaureate degree candidate, IB Theory of Knowledge aims to stimulate critical self-reflection of students' knowledge and experiences. Course content generates questions regarding the bases of knowledge and their verification in the disciplines of mathematics, natural sciences, human sciences, and history, with an awareness of moral, political, and aesthetic judgments and biases. Students learn to appreciate the strengths and limitations of various kinds of knowledge; to relate studied subjects to one another, general knowledge, and living experiences; to formulate rational arguments; and to evaluate the role of language in knowledge and as a way to convey knowledge. *Students must purchase several books throughout the course, at an approximate cost of \$50.*

Course Codes: 04304H05024/04304H05034**Elective: Social Studies**

