

Course Descriptions for Compass Academy

Course Number	Course Name	Credit Hours	Sched Fullcatalogdescription	Credittype
PE330	Aerobic/StrengthCond	1	Instruction in both aerobics and strength conditioning activities. Fitness levels will be established for each member of the class. Programs will be set up to help maximize student physical potential. Activities include aerobics, weights, circuit training, flexibility, calisthenics, agility, strength, quickness, and total fitness. Fee for some activities.	
MA440	Algebra IA	3	Based on the Common Core State Standards for math, this course takes an in-depth study of Algebra. Topics include ratios, proportions, and percents; simplifying expressions; linear equations and inequalities; techniques of graphing; operations with polynomials; quadratic equations and functions; and radical expressions and equations.	JMA,MAL,MTH
MA441	Algebra IB	3	A continued in-depth study of Algebra. Topics include ratios, proportions, and percents; simplifying expressions; linear equations and inequalities; techniques of graphing; operations with polynomials; quadratic equations and functions; and radical expressions and equations.	JMA,MAL,MTH
xMAMA01	Algebra IB/Geometry	6/8	See description of each course for specifics. This course will use the skills and concepts of Algebra to solve geometric problems.	
MA455	Algebra II	3	Includes the topics of real numbers and their properties; linear equations and inequalities; polynomials and factoring; powers, roots and complex numbers; quadratic equations and functions; and matrices and determinants; conics; rational expressions; exponential and logarithmic functions; and use of graphing calculator. Prepares students for Trigonometry and Pre-calculus.	MTH
xLASS02	American Studies	6/8	Integrated course of English and US History.	
xSSFA02	AP European History	3/4	Students embark on an in-depth exploration of European history with an emphasis on the period 1450 to the present. Students study art, architecture, philosophies of human nature and truth, social relationships, and political developments. This is a college level class that prepares students to take the Advanced Placement exam.	
xSS470	AP Human Geography	3	The purpose of the Advanced Placement course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Throughout the year, students will employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. Students will also learn about the methods and tools geographers use in their science and practice.	
FA160	Art I	1	May repeat.	
FA425	Band I	1	May repeat.	
xLASS01	Behavior Studies	6/8	Using sociology and psychology to write about and understand characters in literature	
xSCPE01	Biology & Health	3/4		
BU420	Business Economics	1		

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xSC620	Chemistry I	3	Geared to college-bound students. Students study the structure of matter. Laboratory work, an integral part of this course, allows the study of the concepts discussed in the lecture situation. A scientific calculator is required.	
FA350c	Choir I-Mixed c	1	A non-auditioned performance group for all voices focusing on performance and vocal technique. Trains singers in the basics of choral music and music theory and performs a variety of musical styles. Membership requires a time commitment outside of school hours.	HU1
CS280	CompAppsBus I-WebDsgn	1	Web Page Design covers the fundamentals of working in the Hypertext Markup Language (HTML). Students learn to create, modify, and maintain web pages using HTML. Projects include HTML document creation, website design. Concepts include HTML code, CSS, graphics for web design, JAVA script, Dreamweaver, etc.	TEC,HU2
xCM820a	Debate-Novice I	2	Students study logic, history and politics to create and defend positions related to governmental action, specifically what should be done about a particular issue of importance. This class focuses on team debate styles. Students are expected to participate in tournaments from Oct.-April. Course meets for two trimesters.	
xCM822a	Debate-Varsity II	2	Students further develop their debate skills with a focus on team debate styles. Students are expected to participate in tournaments from Oct.-April.	
FA710	Drama - Acting	1	Provides advanced study in improvisation, pantomime, voice, acting and directing. At least one class production will be done. Student performance is required. After-school rehearsals may be required. The group final is a directed scene or play performed for an audience. This course or Drama 3 is a pre-requisite for Play Production (FA730).	HU1,HU2
FA720	Drama - Tech Theatre	1	For drama students interested in scenic design, stagecraft, light and sound design, costume and makeup techniques, and publicity. Students will demonstrate their technical knowledge through a variety of class projects. After-school rehearsals may be required to technically support school drama productions. This course or Drama 2 is a pre-requisite for Play Production (FA730).	HU1,HU2
FA705	Drama-Theater/ActBasic	1		HU1
PE300	Fitness for Life	1	Introduces the importance of physical fitness as a lifetime activity. The overall objective is to maximize opportunities for attaining motor skills and physical fitness by emphasizing the importance of muscular strength and endurance, cardio-respiratory endurance, flexibility and agility, and body composition. Presidential Physical Fitness standards are used in assessment of knowledge application.	PEB
SC445	Galactic Science	2	Exploring everything from our our planet earth to the stars.	
MA500	Geometry	3	Explores Plane Geometry using inductive and deductive reasoning. Students begin with the undefined terms–ópoint, line, and plane–óand continue with the study of triangles, quadrilaterals, circles, 3-dimensional figures, and the areas and volumes for figures. Constructions are incorporated throughout the course.	MGE,MTH
SC630	Gourmet Sci: FoodChem	1	How chemistry works to cook and bake foods.	
CM600	GraphCom-Yearbook I	1	Media technology skills for print with an emphasis on Yearbook. Experience teamwork and advanced leadership. Design from basic digital images to final print. Prepare finished products such as posters, newsletters and school publications. Deadline-intensive. Course meets for two trimesters; students may register separately for a third trimester (Yearbook Design).	HU2

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CM400	GraphComFund-Publicatn	1	Entry-level class that develops media technology skills for print, blogging, Internet and web. Take reporter notes, interview, copy edit, compile journalistic articles and identify current news events. Learn good photo content and design and receive training in ad design and layout. Special emphasis will be given to legal/ethical issues.	HU1,HU2
PE110	Health	1	Covers the effects of lifestyle on physical, social, and mental/emotional health, including nutrition, suicide prevention, goal setting, communication skills, refusal skills, building self-esteem, stress-management, mental disorders, chronic disease, communicable disease, sexually transmitted disease, medications, illegal drugs, and accessing reliable health information.	HLT
LA671	LanguageOfPropaganda	1	Examining the language used for advertising, speech, persuasion and propaganda.	
xSCSS01	Law & Order	1	Studying how science is used to meet the needs of the law	
PD310	Leadership	1		
FA730a	Play Production a	1	For the committed acting or technical student who illustrates self-discipline and interest in doing serious theatrical work. After-school productions, rehearsals, set work are required. This course represents a large time commitment and may interfere with extracurricular activities. Select FA740a to take Play Production 1st trimester.	HU1,HU2
FA730b	Play Production b	1	Select FA740b to take Play Production 2nd trimester.	HU1,HU2
FA730c	Play Production c	1	Select FA740c to take Play Production 3rd trimester.	HU1,HU2
BU240	Principles of Business	1		
xLAMA01	Proof/Reading	6/8	See description of each course for specifics. This course will use both english and geometry to show the of the language of math.	
PD600	Release Time	0		
SC320	Science Physical	3	Introductory chemistry concepts are covered, followed by a focus on physics. Students use skills including math, measurement, reading, scientific writing, laboratory, and group collaboration skills. A project involving the use of the scientific method is required.	SCP,SCI
xLASC01	ScienceFact&Fiction	6/8	See description of Physical Science -- Using English to understand and articulate the sciencetic method and scientific reading.	
LA682	Shakespeare	1	If you love the Bard and blank verse, this elective class is for you! Students take a visual tour of Stratford and the rebuilt Globe Theater in London and learn words (including insults!) that Shakespeare introduced into English. Through text and film students explore jealousy in Othello and revenge in The Merchant of Venice. Several comedies are explored including the delightful A Midsummer NightVÜs Dream.	HU1,HU2
xFL800	Spanish I	3	Teaches the Spanish language utilizing the skills of speaking, listening, reading, and writing. Students learn to understand spoken Spanish at a basic level and to communicate with simple verbal or written responses. Basic grammar and sentence structure is taught using everyday vocabulary. Culture is interspersed using various media.	
xFL802	Spanish II	3	Progresses from into more complex applications through the skills of speaking, listening, reading, and writing. Vocabulary and verb knowledge is expanded to encompass preterit, imperfect, progressive, and imperative tenses. Culture is interspersed using various media.	
xFL803	Spanish III	3	Progresses into advanced concepts, structures and idiomatic phrases by applying the skills of speaking, listening, reading, and writing. More emphasis is placed on verbal communication and is demonstrated through creative and independent activities. Students are exposed to culture through a variety of literary works, historical themes and composition.	

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xFL804	Spanish IV	3	Reviews the previous courses plus perfects the finer points of the language, including an acquisition of the past subjunctive. Students apply the skills of speaking, listening, reading, and writing. Grammar and culture are expanded. Prerequisite: Minimum C grade in Spanish III A/B or College Spanish 102 A/B.	
SC360	Sports Science	1	Examining the science used in sports to understand how science can provide an advantage or disadvantage in different aspects of the sports world.	SCI
SC370	Transportation Science	1	Look at the power and science behind transportation and exploring new ideas for transportation.	
xMA550	Trig/Precalculus	3	Trigonometric concepts include six trigonometric functions, circular, right triangle and trigonometric functions, trigonometric identities/equations, graphing, polar coordinates. Precalculus include polynomial and rational functions, composition of functions, exponential, logarithmic and special functions, arithmetic and geometric sequences, summing formulas, and vectors. Whole year of Trig/PreCalculus is required for AP Calculus.	MTH
CS310	Video Graphics Apps	1	Develop skills in graphic designs, graphical media presentations, video editing- effects, 2D/3D animations, DVD authoring, engineering 3D solids modeling, and engineering 3D architectural design. Software: Adobe (Photoshop, Illustrator, InDesign, Flash, Dreamweaver, Premiere, After Effects, Audition, Sound Booth), Video Co-Pilot. Students may take course multiple times.	TEC,HU2
BU255	Wealth Management	1		
CS285	Web Design II	1	Covers advanced webpage topics and applications like Dreamweaver, CSS, Javascript, XHTML, Graphics design, web hosting, multi-media content, html editors, and more. Projects incorporate these advanced skills into personal web sites and school web sites.	TEC,HU2
xSSFA01	World History & Art	3	Examines the history of Western society, with special emphasis on the political, economic, social, religious, intellectual, and artistic developments that have influenced Western tradition.	
xFL400	World Language	3	While taking online IDLA course, students will also explore how to learn a new language and the cultures of the languages.	