

2018-2019 Courses - New and Name Changes

Number	New Name	Former Name or New Course	Description
CT0643	Computer Graphics and New Media	Desktop Publishing	This half-year (0.5 credit) course introduces students to the design principles and theories that underlie creative industry work, focusing on various forms of print as well as social media. Foundations of the course include the development of text composition, layout, and hierarchy of information with emphasis on page structure, text/image integration, layout, and design. Using industry-standard layout applications, this course is project-based with assignments introducing branding, typographic composition, general marketing concepts, and social media integration. This class helps students develop their skills as designers with the creation of sophisticated publication design elements. This course fulfills the 0.5 Computer Literacy credit required for graduation.
CT0629	Culinary Arts and Baking 1	Culinary Arts 1	In this full-year (2-credit) course, students will develop refined skills in preparing a variety of foods in a commercial kitchen for a full-service restaurant. Techniques include, but are not limited to, appetizers, soups, salads, salad dressings, sandwiches, entrees, pastries, breads, and molecular gastronomy. Specific topics covered are kitchen safety, knife skills, proper moist and dry heat cooking techniques, culinary history, small and large equipment operation, culinary terminology, bakeshop mixing methods, pastry technique, and becoming ServSafe certified. Students will be required to participate in some after school catering. Culinary class dues, estimated at \$120, cover the cost of three chef coats, two pairs of culinary pants, two aprons, one hat and two certification exams. Students will also be required to obtain kitchen safe shoes. The same uniforms may be used in Culinary 2. Payment plans and financial assistance are available. [DOE CIP code is 120504 Restaurant, Culinary & Catering Management.] Registration through the CTE Office is required. Open to incoming Sophomores, Juniors, and Seniors.
CT0630	Culinary Arts and Baking 2	Culinary Arts 2	In this full-year (2 credit) program, students will operate and manage all aspects of a full-service restaurant operation. Front of the house positions include host/hostess, waiter/waitress, and cashier. Back of the house positions include prep cook, line cook, expeditor, sous chef, baker, and pastry chef. Specific topics to be covered are customer service, restaurant management, kitchen management, menu development, and nutrition. Each student will contribute to writing menus and assist in managing catered functions. Students will be required to participate in some catered functions outside of the school day. Skills acquired through the student's success in the program will enable them to successfully transition to industry or to culinary college. Students are required to adhere to the same uniform policy as Culinary Arts and Baking 1. PREREQUISITE: Successful completion of Culinary Arts and Baking 1 with a grade of 80 or better and permission from the CTE Director.
CT0683	Entrepreneurship	New Course (Replaces Money, Banking, and Credit in Academy of Finance program)	How do you turn an idea into a business? Experience just that in this new course! Entrepreneurship focuses on recognizing a business opportunity, starting a business, operating and maintaining a business. This (0.5 credit) course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business.
CT0646	Introduction to Computer Science	New Course	This semester-long (0.5 credit) course is open to all learners with little or no experience with computer programming. This course focuses on the core computer science ideas such as abstraction, design, recursion, concurrency, simulations and computation using an approachable visual programming language based on block. This course aligns to the AP Computer Science Principles curriculum. This course fulfills the 0.5 credit ICT requirement for graduation.

CT0645	Web Page Coding and Design	Web Page Design	This half-year (0.5) course provides students with a major emphasis on the principles and design of coding a website. Students will learn advanced features and best practices of coding in HTML5, CSS3 and basic JavaScript. Students will be introduced to user experience concepts through graphic design principles for the web. Students will learn how to create sites both manually and through the use of the latest version of Adobe Dreamweaver software. Students will learn how to code web pages with content of text, images, banners, and advertisements designed specifically for the web. This course fulfills the 0.5 technology credit required for graduation. PREREQUISITE: Successful completion of Intro to Digital Media or Programming 1.
CT0732	Woodworking Level 1	Intro to Woodworking	This half-year (0.5 credit) course is designed to allow students to learn the proper use of a variety of hand tools and machines used in this industry. Students will complete a series of required projects in which they will learn how to select material and perform the operations necessary to complete approximately 5 projects. This course is designed for students interested in woodworking, cabinetmaking, and Building Construction. The course has a lab fee of \$40 to pay for material cost.
CT0733	Woodworking Level 2	Intermediate Woodworking	This half-year (0.5 credit) course expands upon the fundamental concepts and skills covered in Introduction to Woodworking. Students will engage in projects from the following areas of woodworking: wood turning, furniture construction, carving and finishing. The course has a lab fee of \$40 to pay for material cost. PREREQUISITE: Successful completion of Woodworking Level 1 with a minimum grade of 75 or approval from the CTE Director.
CT0735	Woodworking Level 3	Advanced Woodworking	This half-credit (0.5 credit) is designed to allow a student's creative and artistic ability to flourish. Students will design and build functional and decorative objects from wood. The depth, breadth, and scope of challenging projects assigned are commensurate with the students' career interests. PREREQUISITE: Successful completion of Woodworking - level 2 and permission from the CTE Director.
FA0949	Academy Singers	Academy Women's Choir	This full-year unlevelled (1 credit) course is open to Sophomore women who have a serious desire to learn to sing in a healthy manner, read music, and perform a wide variety of choral literature from the popular, classical, jazz, music theatre, folk, and world music repertoire. Students are required to perform in four concerts per year and will be asked to demonstrate their music literacy skills through written and oral exams. Appropriate attire will be needed for performances. Students may elect this course to fulfill their 0.5 Arts requirement for graduation.
FA0916	AP Studio Art	AP Art Studio	This full-year (1 credit) advanced placement course is designed for seniors who wish to earn college credit while in high school. The emphasis of this course is to produce a portfolio for submission to a jury of AP College Board Artists for college credit. Through studio practice, application of design concepts, and informed decision making, students will assemble a body of artwork that demonstrates a high level of quality and growth over time. Students will develop mastery in concept, composition, and execution. Students will address three components in their portfolios: Quality, Concentration, and Breadth. Students are expected to use artistic integrity throughout the course. Work that is based on published photographs or the work of other artists must move beyond duplication to illustrate an original idea. PREREQUISITE: Completion of Intermediate Level art courses and approval from Department Head.
FA0903	Ceramics 1	Intro to Art: Ceramics 1	This half-year (0.5 credit) course will fulfill the 0.5 credit Arts requirement for graduation. It is designed to give students basic knowledge and technical skills in ceramics. The student will have hands-on experience with pinch, coil, and slab methods of hand building. The student will also have hands-on experience with throwing both bowl and vase forms using the potter's wheel. Glazing and finishing techniques will be covered while Kiln operation and firing techniques will be discussed. Initiative, creativity, and self-discipline are important factors in the student's success. This course satisfies the (0.5) Arts requirement for graduation. Students who select this course will not be eligible to register for Intro to Art: Graphic Design, Intro to Art: Studio Emphasis or Intro to Art: Digital Photography. PREREQUISITE: A mature and positive attitude
FA0911	Ceramics 2	Advanced Ceramics	This half-year (0.5 credit) course is designed to expand the knowledge and skills learned in Intro to Art: Ceramics 1. Students will develop projects stressing elements of design while using both handbuilding and throwing methods. Initiative, creativity, and self-discipline are important factors in the student's success. Ceramics 3 is the sequel to this course. PREREQUISITE: Successful completion of Ceramics 1 with a grade of 70 or better.
FL0328	German 4A	New Course	This full-year (1 credit) foreign language course is designed for the student who wishes to work intensely with the German language itself, and to explore the world in which the German language is used. The class is conducted mostly in German. Students will explore special situations in German grammar and syntax, and will develop writing skills. Major works of literature from two eras will be read. The students will investigate German history, art and culture, current events, and the role of German business in the international economy. The class will require preparation outside of class, and students will be expected to learn to discuss a variety of topics in German. Active class participation is a must. PREREQUISITE: German 3 with an average grade of 78 or better.

FA0940	Introduction to Music	Introduction to Music - Lab	This half-year (0.5 credit) course is designed for both the non-musician and musician who wish to satisfy the (0.5 credit) Arts requirement for graduation. Students will explore the six basic elements of music: rhythm, melody, harmony, timbre, texture, and form by learning to play instruments, analysis, technology, and composition. Instrumental activities will include keyboards, African drums, guitar, and hand chimes. The music technology and composition units will utilize the latest music notation software. There is a heavy emphasis on learning to read music notation. Music sampling, beat making, and audio production are not covered in this class. NOTE: Although there is no pre-requisite for this course, students must be open to listening to all styles of music and have a genuine interest in reading and making music. Although there is no prerequisite for this course, students must be open to listening to all styles of music and have a genuine interest in reading and making music.
FA0972	Jazz Ensemble (open by audition only)	Jazz Lab Ensemble	This full-year (1 credit) course is open by audition only to students in grades 9-12. The Jazz Ensemble will perform in at least three concerts per year as well as the NHBDA and UNH Jazz Festival. This is an ensemble for serious musicians who are interested in playing in a Big Band style, with a variety of traditional jazz music, swing, ballads, Latin, and funk. Standard instrumentation for this group is 5 saxophones, 4 trombones, 5 trumpets, and a rhythm section made up of piano, bass, guitar, and drums. Auditions for acceptance into Jazz Ensemble will be made at the beginning of second semester. PREREQUISITE: All saxophonists, trombonists, and trumpet players must be enrolled in Wind Ensemble or Concert Band in order to audition. Some rhythm section players may be exempt from this rule.
FA0943	Mixed Chorale	Mixed Chorus	This full-year unlevleled (1 credit) course is open to boys in grades 9-12 and girls in grades 11 and 12. Students who enroll in this course should have a serious desire to learn how to sing in a healthy manner, read music, and perform a wide variety of choral literature from the popular, classical, jazz, music theatre, folk, and world music repertoire. Students are required to perform in four concerts per year and will be asked to demonstrate their music literacy skills through written and oral exams. Appropriate attire will be needed for performances. Students may elect this course for their 0.5 Arts requirement for graduation.
FA0936	Musical Theatre Workshop	Musical Theatre	This half-year (0.5 credit) course is available to students in grades 10-12. This course is designed for students who desire to look deeper into the following aspects of Musical Theatre: Performance and auditioning techniques, history, acting techniques and character analysis, performance analysis and evaluation, dancing for the theatre, careers and vocational pursuits in musical theatre, directing and technical aspects. Students signed up for this course should have some singing experience. The course will conclude with a graded performance showcase. This course may be taken more than once. PREREQUISITE: Successful completion of Introduction to Theatre Arts and teacher approval.
FA0948	Treble Singers	Academy Women's Choir	This full-year unlevleled (1 credit) course is open to Freshman women who have a serious desire to learn to sing in a healthy manner, read music, and perform a wide variety of choral literature from the popular, classical, jazz, music theatre, folk, and world music repertoire. Students are required to perform in four concerts per year and will be asked to demonstrate their music literacy skills through written and oral exams. Appropriate attire will be needed for performances. Students may elect this course to fulfill their 0.5 Arts requirement for graduation.
FA0954	Unified Music	New Course	This half-year (0.5 credit) Fine Arts elective offers a small number of musically-minded students the opportunity to provide natural supports to peers with special needs in a comprehensive music program. A selection of activities and assignments will be taken from the following areas: creating and performing music using the voice and various percussion and classroom instruments, responding to different styles and elements of music, basic notation, and connecting music with daily life.
MT0453	Finite Math w/Trigonometry B	Same course, now semesterized	This course is taught as two semester (0.5 credit) courses and is for students seeking a fourth year of math who are planning to study a non-math-related field in college. This course extends algebraic topics including systems of linear equations (matrices) as well as quadratic, polynomial, exponential, logarithmic, rational and trigonometric functions. Topics selected from probability and statistics are emphasized. This course requires continual use of a TI 84-plus graphing calculator, which the student must provide. PREREQUISITE: One credit in Algebra 2B with a 70 or better average or one credit in Algebra 2C with an 80 or better average or teacher recommendation. This is a senior elective only.
SC0511	Health Education B	Elimination of C-level, Health B will now be a B/C mix	The goal of this half-year (0.5 credit) health course is to help establish patterns of behavior that will assist a person in achieving complete health. This is accomplished by having a balance of physical, mental, social, and emotional well-being. This course is designed to offer students the opportunity to acquire knowledge, incorporate process and life skills, and develop positive attitudes. Building a solid foundation of good decision-making skills can contribute to a variety of healthy choices for themselves and others-Required Health Course.

SSo272	AP Government and Politics	New Course	This full-year (1 credit) Advanced Placement course provides students with an opportunity to further their knowledge of government and politics past the preliminary knowledge gained in the required American Government course. This course will investigate the formal and informal structures of government and the US political system, with a focus on policy-making and implementation. Students will study various perspectives and rationale for the outcomes associated with government and politics, through the understanding of general concepts and analysis of specific examples. The emphasis is on preparing and encouraging the student to take the Advanced Placement exam. There is a summer assignment that is expected to be completed by the first day of class. PREREQUISITE: Successful completion of at least 1.5 credits in the following courses: Cultural Geography, American Government, and Economics, and have the approval of the Department Head.
SCo550	AP Physics C: Mechanics	New Course	AP Physics C: Mechanics is equivalent to a one-semester, calculus based, college-level physics course; especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion, work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course. PREREQUISITE: One credit in Chemistry (A or Honors) and completion or concurrent enrollment in calculus. A previous course in physics is recommended but not required. (1 credit). Note: This is an approved math-related course.
SCo549	Forensic Science	New Course	This one-semester (0.5 credit) course will focus on the collection, identification, and analysis of crime scene evidence. Emphasis will be placed on the methods that link suspect, victim, and crime scene. Laboratory exploration will include fingerprinting, blood spatter, DNA analysis, ballistics, blood typing, trace analysis, toxicology, and document analysis. Throughout the course, students will learn about forensic tools, forming and testing hypotheses, proper data collection, and developing conclusions. Case studies and current events will be explored. PREREQUISITES: 1 credit Biology and 1 credit Geometry OR Algebra 2.

Affiliated Extracurricular Musical Ensembles (These are the same ensembles as before, students no longer have the option of taking them as a course) - AUDITIONS REQUIRED

Handbell Ensemble	This ensemble is offered after school and is open to all students by audition only. Although no ringing experience is required, students need to have strong music reading skills. Students will perform a wide and varied repertoire of music. There will be four required concerts per year. Auditions will be held in September.
Jazz Lab (open by audition only)	This ensemble is open by audition only to students in grades 9-12 and meets one night per week after regular school hours. The Jazz Lab will perform in at least one concert each year. This is an ensemble for young musicians who are interested in playing in a Big Band style, with a wide variety of traditional jazz music to include swing, ballads, Latin, and funk at a beginner to intermediate level. Improvisation will also be covered. Instrumentation will vary. Auditions for acceptance into Jazz Lab will be held in the fall. PREREQUISITE: All saxophonists, trombonists, and trumpet players must be enrolled in Wind Ensemble or Concert Band in order to audition. Some rhythm section players may be exempt from this rule.
Percussion Ensemble	This ensemble is recommended for all beginning percussionists who have had at least one year of experience in a school band program and meets one night per week after regular school hours. It is designed to teach music reading of rhythm and notes in both treble and bass clefs. Proper playing technique for all standard percussion equipment including mallet instruments, snare drum, bass drum, cymbals, timpani, and various auxiliary instruments will be covered. DRUM SET WILL NOT BE COVERED. Students will also work on standard percussion ensemble literature from grade levels 3-4 (medium difficulty). Students in this ensemble will be expected to perform in at least two concerts per year. This is an ensemble for serious musicians who are expected to practice a minimum of 1-1/2 hours per week. Students will have the option of taking private lessons.
Select Choir	This full-year vocal ensemble is open by audition only to students in grades 9-12 who are members of the Academy Women's Choir or Mixed Chorale. This ensemble will sing a wide variety of challenging choral music from the popular, classical, music theatre, multicultural, and jazz repertoire. Rehearsals will be held for at least 2 hours per week after school.
String Ensemble (open by audition only)	This full-year ensemble is open by audition only to serious student musicians in grades 9-12 who play violin, viola, cello or string bass. Beginning string students will be accepted only by permission from the Instructor. This performing ensemble will meet for 2 hours once per week after school hours. Students will be expected to participate in at least four performances during the year.

Affiliated Extracurricular Theatre Ensembles

Pinkerton Players	An organization for all students (9-12 grade) who like any aspect of theatre: acting, singing, dancing, directing, designing costumes, doing makeup, being a stage manager or a technical director, building a set, doing lights or sound. The Players offers workshops, fun activities, field trips, and its most important mission, producing the fall and winter plays, and spring musical. Join and enjoy a complete theatrical experience.
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Technical Theatre

This theatre extracurricular provides students with expertise in stage theatre production and design, incorporating elements of set construction, lighting, and sound. Separate from Stage Crew, this after-school opportunity offers students the ability to explore the knowledge and ideas that not everyone has a chance to experience while working on Pinkerton Players productions.