



GRANT HIGH SCHOOL
9th GRADE COURSE GUIDE
2019-2020 EDITION

Grant High School 2019-2020

Our 9th grade Grant High School community model intentionally brings together students from different schools, neighborhoods, and backgrounds as well as students with different strengths, interests and needs. By creating a sense of community among our freshmen, we can fully appreciate our diversity and take advantage of the gifts each member brings.

We have developed our freshmen community model to ensure that students get to know many of their classmates and build relationships with a small group of teachers who will help them apply their talents, build on their assets, and develop the habits needed to be successful at Grant High School. Our freshmen will deliberately have a common set of experiences and courses as they enter high school. This 9th grade community structure is designed to establish a strong foundation that will help ALL students maximize their potential.

Common Core Program for students entering 9th grade

COMMUNITY COURSE DESCRIPTIONS

ENGLISH 1-2: This course lays the groundwork for the English classes that students will encounter throughout their time at Grant. Coursework prepares students to read critically, write effectively, and communicate clearly. Students will read texts in a variety of forms, including short stories, poetry, nonfiction essays, and drama. In addition, students have the opportunity to analyze film by learning the cinematic techniques that the director uses. Students will read a variety of novels, some classics, and some contemporary. Writing and speaking opportunities will include narrative writing, expository essays, an introduction to persuasion, dramatic performances, and oral presentations.

NGSS PHYSICS: This course focuses on the core ideas of Physics - motion, forces, momentum, energy, waves, and electromagnetism. Students will experience the patterns approach of using experiments as a way to learn physics content and then apply what they have learned in engineering design tasks. The NGSS Physics class teaches students problem solving, innovation, design, and critical thinking.

Physics is lab-based and STEM (Science Technology Engineering Mathematics) focused where students engage in regular scientific inquiry and engineering design. This class is the first science class of the new three-year science sequence. Students who have taken NGSS Physics in middle school will begin their sequence with Chemistry.

MODERN WORLD HISTORY: This course provides students with a foundation of historical and geographic knowledge needed to understand the modern world. The course focuses on the last two centuries of world history and covers topics such as: cultural diversity, imperialism, industrialization, democratic government, and war.

OTHER GRADUATION REQUIREMENTS

It is helpful to think about freshmen and sophomore years together as you plan your classes. There are a few graduation requirements that we recommend you start in 9th or 10th grade – specifically PE and Health and World Language.

MATHEMATICS

Students will be placed in math classes based on their ability and prior high school credit(s) earned in middle school. The first three years of High School mathematics are Algebra 1-2, Geometry, and Algebra 3-4. All three of these are required for graduation. Geometry may be taken in conjunction with Building Construction in our GeoTech class.

ALGEBRA 1-2: Algebra 1-2 is structured around problems and investigations that build the conceptual understanding of algebraic topics and an awareness of connections between the different ideas. There are strong threads woven throughout the course on multiple representations and the meaning of a solution. Students will be asked to justify their thinking, generalize relationships, make connections between ideas and reverse thinking to solve problems.

ALGEBRA SUPPORT: This course is taken in conjunction with Algebra 1-2 for students coming from Math 8 or Compacted Math who are uncertain whether they can be successful in a high school level, first-year Algebra course. This course seeks to build confidence by providing extra time, re-teaching as needed, additional practice, and repeated opportunities to show proficiency with the Common Core Algebra standards.

GEOMETRY 1-2: In this course, students will explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Areas of focus will be congruence, similarity, right triangles, trigonometry, circles, and measurement. In addition, students will build on probability concepts from the middle grades by expanding their ability to compute and interpret theoretical and experimental probabilities for compound events, attending to mutually exclusive events, independent events, and conditional probabilities. Students use the software available with the TI-84 calculator and/or Geometer's Sketchpad to deepen their understanding of key ideas. Homework is required in this class.

GEOTECH: Students interested in building should forecast for this class! This class pairs with Geometry to make a double blocked course (one credit of Geometry and one elective credit). It provides students opportunities to learn Common Core Geometry standards in a traditional math classroom and through building a variety of projects. Students will have this class every day with two teachers who will combine paper and pencil and hands on approaches to gaining competency in both Geometry and building and construction techniques.

Prerequisite: Algebra 1-2

WORLD LANGUAGE

World Language is a requirement for all students. They need to take two years of the same world language during their high school career. Students have the opportunity to pursue Spanish or Japanese. Placement depends on whether students have already begun their language study prior to entering high school. If you have earned a world language high school credit in middle school, we recommend you keep studying your language in your 9th grade year. If you have not earned high school credit yet, you can start your world language credits during your 9th or 10th grade year (see insert for descriptions).

***World Language course requests above first year must have current teacher approval.**

Talk to a Grant counselor for more information*

JAPANESE 1-2 (KISO): In the 1st year Japanese class, students will learn to communicate on familiar topics using a variety of words and phrases. Students will learn the Japanese sound system, hiragana and katakana (Japanese characters) and begin study of kanji (Chinese characters). Students will be introduced to Japanese grammar, vocabulary, and culture through sequential thematic units. Through the lens of traditional and contemporary Japanese culture, topics such as personal information, food and dining, daily activities and school life will be explored.

JAPANESE IMMERSION: GLOBAL PERSPECTIVES Utilizing their Japanese language and cultural skills, students in this course will examine the life and perspectives of people in Japan comparing and contrasting to people from other cultures. Themes such as food and health, religion and values, customs and holidays, and cultural identity and diversity will be explored. Students will consider their own and others' perspectives in communicating ideas clearly and appropriately to diverse audiences regarding these issues. Conducted in Japanese.

JAPANESE IMMERSION: ADVANCED GLOBAL PERSPECTIVES Same content as Japanese Immersion: Global Perspectives. This advanced course will provide an accelerated opportunity to extend the student's language learning at a higher proficiency level. Students who wish to enroll in this class must be ready to handle authentic material in homework assignments and work independently on his/her own at home. Students in this course are expected to have the ability, independent study skills in Japanese, and the willingness to function in Japanese 100% of the time in class – including, peer-to-peer conversations and any email required by this class.

*AP preparation is embedded in this advanced curriculum. The students are strongly encouraged to take the AP Japanese Exam in their freshman and/or sophomore year. Conducted in Japanese.

SPANISH 1-2: By the end of the first year of Spanish, the student will be able to converse, read, and write about themselves, family, and pastimes. Students will be able to identify and order food at a restaurant, identify locations and businesses in a city, and give directions. They will be able to describe daily routines at home, as well as at school, and will have the language necessary to be able to sell and buy products in a market. Cultural traditions and customs as well as songs, foods, and holidays will also be taught. Students will be able to speak in the present tense, use proper greetings, identify numbers, describe weather, date, and time, and identify classroom objects, clothing, and colors by name.

SPANISH 3-4: May be taking if High School credit was received for Spanish 1-2 in middle school and current teacher's approval is on your Course Request form.

PE/HEALTH

PE and Health are graduation requirements that most students complete in 9th and 10th grade. Most students take Fit to Live & Learn, a one-year, every day class where they earn PE and Health credit. Other students choose a two-year track for these credits. These students earn PE credit their 9th grade year with Cross Training and then take a health class in 10th grade.

FIT TO LIVE & LEARN: Students are double-blocked (counts as two class periods) in this combined PE & Health course that follows the state and national standards for both content areas. This unique opportunity allows students to participate in a variety of traditional and non-traditional physical activities and dynamic health lessons DAILY. The three focuses for this program include Healthy Nutrition, Physical Activity and Mental Strength Practice. Students will complete PE and Health graduation requirements in one year.

CROSS TRAINING: This course meets the state and national standards for physical education in this singular approach to PE. When taking this course you will complete ONLY the required PE credit for graduation with a full year of Cross Training. Students will be required to complete their Health requirement after their 9th grade year.

Elective Course Offerings

BUSINESS & CTE (Career & Technical Education courses)

INTRO TO COMPUTER PROGRAMMING: This is a project-based, hands-on course that focuses on teaching the tools students need to become good programmers. We will design and code websites, games, and interactive stories, build and program robots, and design applications for the Raspberry Pi while learning important skills such as problem solving, research, algorithm development, and basic programming principles. Students do not need prior programming experience to be successful in this course.

INTRODUCTION TO ENGINEERING 1-2: Do you like to take things apart to see how they work and try to fix them? Do you like to build things that solve problems and make life easier? Does Simone Giertz the “Mother of Terrible Inventions” or the latest Mars landing inspire you? In this hands-on, project-based class you will learn engineering using the tools and design processes that engineers use including hand tools, CAD, digital fabrication (3D Printing), and many others.

ROBOTICS 1 - 2: This is a project-based course, in which students learn about circuits, programming, and the engineering design process, and then use their knowledge to design, build, and program robots. Previous programming experience is helpful, but not required. This is a pre-requisite for the Robotics Team course, but students with previous robotics experience may advance to the Robotics Team with instructor approval.

ACCOUNTING AND PERSONAL FINANCE: This one-year course will introduce students to one of the fastest-growing professions in the United States, which includes a formal system of financial record management for sole proprietorships and partnerships. Students will gain experience dealing with specialized accounting applications: special journals, petty cash system, taxes, depreciation, managerial decisions, and interest. Accounting career opportunities and ethics will be researched and discussed. This course covers various aspects of personal finance such as; investments, budgeting, and managing personal banking. This course is also recommended for students interested in an accounting career and those pursuing other business career-areas.

MARKETING & ENTREPRENEURSHIP: In this course students learn about marketing concepts and how they apply to business creation and management. Students who are interested in developing an understanding of business, planning to study business in college, and/or becoming informed consumers are encouraged to take this course. The class will cover a variety of topics including brand development, promotion, merchandising, advertising, distribution, pricing, product development, market research and planning, sales, and entrepreneurship. This is a project-based course in which students will have the opportunity to learn business skills in a hands on environment.

GRAPHIC DESIGN 1 - 2: Graphic Design 1-2 is an introductory project-studies class in which students acquire skills in graphic design from a marketing and visual communication perspective. Students will learn the elements of graphic design and optimizing graphics for print and non-print mediums. Instruction will utilize the Adobe Design Standard CS5.1 computer software package focusing primarily on the Illustrator, Photoshop, Bridge, and Acrobat programs. These programs will be used for students to create, edit, organize and publish their works. Creation and presentation of a digital portfolio of studio work will be required. This class requires students to have interest, motivation, knowledge of basic computer operation, and an ability to work maturely and independently with technology and in a studio setting.

ARCHITECTURAL DRAWING: This class is an introduction to basic architectural drawing skills including terminology, drafting tools, lettering, line quality, dimensions, plans, elevations, sections. Three dimensional techniques will be covered as well, including isometric, oblique, and perspective views. Sketch-ups are used to model simple building structures and everyday objects. Emphasis is on accurate visual communication using industry standard conventions.

PRINCIPLES OF BIOMEDICAL SCIENCE: In this course, students will have guided exposure to a variety of health careers/ occupation and will learn about important issues in healthcare. The students will experience how medical and health professionals use biology, chemistry, and physics. Students will participate in real-life simulations, role-play exercises with peers and medical experts. Students will also research the academic and people-skills needed to pursue medical research, nursing, nutrition, radiology, pharmaceutical fields, dentistry, sports medicine, anesthesiology, physical therapy, kinesiology, chiropractic, and other health-related fields.

WOOD WORKING 1-2: This class introduces students to the amazing possibilities of making things from wood. Through a series of increasing complex projects, students will learn the properties of wood; safe and proper use of hand tools, power tools, and machinery; techniques for finishing wood projects; and how to create an excellent project from raw materials. Focus will primarily be on small wood projects such as boxes and small furniture, but students are introduced to the basics of carpentry and construction as well. The goal of this class is for students to be able to design, create, and build projects to fulfill individual and community needs by the end of the year.

AUDIO ENGINEERING/MUSIC PRODUCTION: An introduction to the world of creating sound in the analogue, digital and live world. Students will become familiar with technical musical/audio vocabulary and learn the practical skills necessary to work with audio equipment. The class will explore the different methods and techniques used for home recording systems and up to professional studios in the greater Portland area. Students will develop skills such as tracking, mixing and mastering as well as microphone placement and acoustics. Students will also be responsible for designing, producing and working all major concerts, plays and assemblies throughout the school year. Career opportunities may be possible through potential partnerships with local recording studios and professional sound engineers.

VISUAL ARTS

INTRODUCTION TO ANIMATION: This course is a historical journey through animation. Using a variety of tools and mediums, students will learn digital and traditional animation techniques, from flipbooks and zoetrope's to Adobe Flash and basic ActionScript. We will consider 3 dimensions in Claymation, study a variety of animation studios and traditions, and create comics and other time-based arts. Students will work through all phases of project development, including brainstorming, scripting, storyboarding, edits, audio, and screening. The course will also consider commercial uses for animation, including infographics and other professional applications.

ART OF PRODUCT DESIGN: CTE (Career Technology Education) course. With an eye on design, this course will take students into many of the major concepts of the product design industry. Conceptualizing and evaluating ideas, creative problem solving, model making, creating variations, functionality, and surface design are explored, as students consider how commercial goods are created. Because they are fundamental to products, this course will also look at marketing and consumerism, and how and why new products are produced. We will use Sketch Up, drawing techniques, and the Makerspace to experience this professional design field. Projects may include apparel design, footwear, packaging, home goods, and more.

FOUNDATIONS IN ART: This course is an introduction to drawing and painting practices, drawing media, and basic design concepts. Units of study emphasize acquisition of foundational technical skills in drawing, painting, color mixing and color theory. The conceptual content is founded in the students' own lives, and the study of certain global and historical traditions. Students are challenged to creatively problem solve drawing/design ideas introduced through images, lecture, discussion, demonstration, idea generation and preparatory sketchbook entries.

FOUNDATIONS IN CERAMICS & SCULPTURE: This beginning 3D Art course will introduce students to Ceramics and Sculpture. Students will explore various media with an emphasis in clay. Techniques may also include: wire, cardboard, paper-mache, plaster, wood, fibers, and found object. We will explore history, culture, aesthetics, and begin to navigate the process of art criticism. Students will learn to problem solve in concept development, time management, and execution of work. Students must be willing to work outside of class time on projects. Time management is essential!

FOUNDATIONS OF PHOTOGRAPHY: The major emphasis of this course is gaining technical and artistic photographic skills. Students explore the elements of photography as well as doing specific projects, which help them learn about the potential of their own equipment. Evaluation is based on completion of assignments, keeping an up-to-date notebook, participation in group discussions, and quality of work.

DIGITAL MEDIA & POP CULTURE: CTE (Career Technology Education) course. This course will introduce students to digital art and design skills, ideas, and frameworks. Students will explore contemporary ways in which artists use and create digital works, which may include: graphic art, social media, animated GIFs, and short videos. The conceptual content of this course is centered on students' experience, interests, and motivations, using critical discussion of contemporary culture as a lens. Referencing discussions, images, internet media, and lecture, students will be asked to creatively problem solve in each assignment. With an emphasis on social responsibility, students will gain the kinds of skills necessary to be empowered to create the kinds of media they consume.

SCREEN PRINTING: Students in this course will learn skills and techniques to run and operate their own hypothetical screen printing operation. Through technical and conceptual exercises, students will build on art and design knowledge to develop their own style and aesthetic. Students will investigate business operation ideas and be able to put their researching into practice.

PERFORMING ARTS

DANCE 1-2: All students are welcome in Dance class, including beginners, trained dancers and those who want to try out new dance styles in a supportive environment. Students will explore various forms of dance, including hip hop, contemporary, and multiple historical and cultural dances. There will be opportunities to perform publicly, but it will not be required. Students will experiment with interpreting music through movement, while gaining new skills. Express yourself through choreography and freestyle, and learn about the constantly evolving art of dance in this fun and highly-active class.

BEGINNING THEATER - THEATER EXPLORATION: is about having fun, moving, making each other laugh and think, and really exploring what you are capable of as a performer. This class offers you exciting opportunities to perform in a wide variety of styles and formats and emphasizes trust, play, games, and improvisation before jumping into script work. This class wants to fire your imagination and open you up to all the possibilities the acting experience can release within once you give it a try. If you are a student who always wanted to act but could not get over their stage fright, this class is for you. Students will work together in a structured and supportive atmosphere, develop solid performance skills, and build community!

CHILDREN'S THEATER TOURING COMPANY: This entry level CTE (Career Technology Education) performing arts class will produce a children's theater show to tour schools around the district – and beyond! First semester we will work on ensemble building, fundamental acting exercises, character exploration, auditioning/casting, costume and prop design and building, and finally, rehearse the children's show - which will tour the second semester. Our goal will be to take this show to as many different schools as possible, while learning how theater is created and produced. This is a fantastic opportunity for freshmen and up to dive into the performing arts at Grant – and to fully understand the process of both creating theater, and ultimately, performing theater. This class is for those who have had some performing experience and the student who is not afraid to dive into a full performing schedule.

TREBLE CHOIR: Treble Choir is a non-auditioned vocal class for alto and soprano voices. Previous vocal experience is not required. The class will focus on developing vocal tone, learning to sing in an ensemble setting, becoming familiar with various vocal repertoire, showmanship and basic elements of music theory/history. Students will perform concerts throughout the year featuring pieces of many different styles such as popular, folk, classical and jazz. Lots of fun!

MEN'S ENSEMBLE: Men's Ensemble is a non-auditioned vocal musical class for tenor and bass voices. Previous vocal experience is not required. The class will focus on developing vocal tone, learning to sing in an ensemble setting, becoming familiar with various vocal repertoire, showmanship and basic elements of music theory/history. Students will perform concerts throughout the year featuring pieces of many different styles such as popular, folk, classical and jazz. Snazzy bow ties to be provided!

SYMPHONIC BAND: Symphonic Band is a preparatory concert ensemble for Wind Ensemble consisting of primarily 9th and 10th graders. The ensemble contains members of various ability levels, but previous band experience or director's approval is required. Students in the Symphonic Band will play a wide variety of literature while continuing to grow in their aural abilities regarding blend and balance, intonation, rhythmic accuracy, and the production of good tone. They will perform in at least three concerts, one parade, and at various pep band events throughout the year. **Prerequisite:** Previous wind instrument / percussion experience or director's approval.

PERCUSSION ENSEMBLE: Students who are interested in percussion this is the course for you. Students perform in multiple ensemble settings, including drumline, mallet, concert, Latin, and non-traditional styles. This ensemble makes up the drumline at pep events, marching percussion, and performs at various concerts throughout the year. Students have the option of repeating for a second semester. Priority is given to percussionists enrolled in concert ensembles.

JAZZ LAB: This is a preparatory ensemble for the Jazz Ensemble. The group studies and performs standard and contemporary big band jazz, as well as a variety of jazz combos. A strong emphasis is placed on jazz style/interpretation, improvisation, and performance. Prior experience on an instrument is required, but no previous jazz experience needed. Members will perform in at least three concerts. **Prerequisite:** Previous instrumental experience

STRING ORCHESTRA: String Orchestra is open to students with prior violin, viola, cello or string bass experience. The ensemble consists of students of various ability working to improve ensemble performance skills including blend, balance, intonation, rhythmic accuracy, melodic interpretation and tone production. Members will perform in at least three concerts and possibly one festival throughout the year. **Prerequisite:** Previous instrumental experience

BEGINNING GUITAR: Learn to play guitar, and become the musician you've always wanted to be! In this class you will build basic guitar skills. The course is designed for beginning to intermediate guitar players. First, you'll get to know all the parts of your guitar, from frets to strings, and learn how to tune your instrument. After that, you'll explore the fundamentals of music notation and find out how to produce clear, beautiful notes and chords. You'll also discover how to control your rhythm, tempo, and volume, and how to express yourself artistically. The classical guitar skills you'll master in this course will allow you to play any style of music.

GENERAL ELECTIVES

INTRODUCTION TO JOURNALISM: CTE (Career Technology Education) course. This course is a preparatory/feeder course for the school's award-winning journalism publication. Students will learn the basics of journalism, including training in reporting, interviewing and other information-gathering techniques. Students also will practice writing personality profiles, feature stories and breaking news. Some training involving page design and photography will be part of the introductory course. Students will have a chance to have work they complete appear in a *Grant Magazine* issue at the end of the school year.

INTRODUCTION TO LEADERSHIP: This class is open to any student interested in developing the characteristics and skills of a strong leader. This class is recommended for any student that is interested in any type of leadership position within the school or outside organizations in the future. Skills development will include topics such as: communication, planning, organization, problem solving, and teamwork.

Planning 9th and 10th Grade

You take 8 classes each year and you work with your counselor to make a graduation plan in your freshmen year. This can help you as you start to think about earning all of your high school credits.

9th Grade	
Sample	Your Choices
English 1-2	English 1-2
Modern World History 1-2	Modern World History 1-2
NGSS Physics 1-2	NGSS Physics 1-2
Math – GeoTech	Math -
GeoTech (Building Const)	
Spanish 1 -2	
Intro to Computer Programming	
Children’s Theater Touring Co	

Remember
There are lots of different classes you can take at Grant. You will have four years to take everything you need.

Remember
You need PE and Health credit in your freshmen and sophomore years.

10th Grade	
Sample	Your Choices
English 3-4	English 3-4
Chemistry 1-2	Chemistry 1-2
Algebra 3-4	Math -
Spanish 3 - 4	
Writing for the Arts	
Woodworking	
Fit to Live and Learn	
Fit to Live and Learn	

Remember
You need to start your World Language requirement your freshmen or sophomore year