

9th GRADE COURSE GUIDE

GRANT



2020 COURSE GUIDE

Grant High School 2020-21

We have developed our freshmen success team 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 have a common set of experiences and courses as they enter high school. This 9th grade success team structure is designed to establish a strong foundation that will help ALL students maximize their potential.

Common Core Program for all 9th grade students

SUCCESS TEAM COURSE DESCRIPTIONS

ENGLISH 1-2: This course lays the groundwork for the English classes that students will encounter throughout their time at Grant. Students will learn how 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 Next Generation Science Standards (NGSS) three-year science sequence. Students who have taken NGSS Physics in middle school will begin their sequence with NGSS Chemistry.

9TH GRADE INQUIRY: This required course will support your transition to Grant High School and provide instruction to support academic success. You will explore college and career options, learn academic skills, and also focus on important social/emotional skills. Ninth Grade Inquiry is an opportunity for you to gain exposure to the working world that you will one day enter. This course will also explore the ways that post-secondary options, including college, will help you in the future. Through this class, you will see a bridge between school and career in ways that both keep you motivated to continue to explore professional interest throughout high school and graduate with the skills needed for your next steps in life. After having opportunities to reflect on your current strengths and interests, you will gain exposure to a wide range of possible careers; how careers connect to choices at Grant; the value of community service; and the expectations for college entrance and scholarships. We will practice and learn academic skills and standards consistently by using current/relevant content to prepare you for all course levels at Grant High School. This will include AP and Dual Credit preparation, reading and writing strategies and organization.

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 elective course is taken in conjunction with Algebra 1-2. 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. Course availability is based upon available staffing resources.

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

OTHER GRADUATION REQUIREMENTS

We recommend that you begin your
World Language and PE & Health
requirements as a 9th grader.

WORLD LANGUAGE

World Language is a requirement for all students. Students must complete two years of the same world language during their high school career. Students will have the opportunity to pursue Spanish or Japanese. 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. Placement depends on whether students have already begun their language study prior to entering high school. 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).

The Japanese program for students not in the Japanese Immersion Program offers Japanese 1-2 & Japanese 3-4 on alternate years. Please see the full description of these courses and our Japanese Program on the Grant High website <https://www.pps.net/Page/13502>. Grant will be offering Japanese 3-4 during 2020-2021 school year.

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

Talk to a Grant counselor for more information*

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*: You may enter at this level if you have taken and received High School credit for Spanish 1-2 in middle school and current teacher's approval is on your Course Request form.

JAPANESE IMMERSION: HISTORY AND CULTURE: This course is offered to Freshman and Sophomore Sogo Course students. Students in this course will explore specific aspects of Japanese culture and value by viewing and examining Japanese history and modern life. Such issues include: 'cultural borrowings' and its impact on Japan now and then, transportation, visual and performing arts, aesthetics, sports, clothing, etc. Students will investigate how cultural identity is formed over years as well as examining their own identities.

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.

Prerequisite: Successful completion of JMP K-8 with teacher recommendation or Intermediate Low level of proficiency in Japanese.

JAPANESE IMMERSION: ADVANCED HISTORY AND CULTURE*: This course is offered to Freshmen and Sophomore Sogo Course students demonstrating full readiness to take the AP Japanese exam. Students in this course will explore specific aspects of Japanese culture and value by viewing and examining Japanese history (Edo period) and modern life. Such issues include: 'cultural borrowings' and its impact on Japan now and then, transportation, visual and performing arts, aesthetics, sports, clothing, etc. Students will investigate how cultural identity is formed over years as well as examining their own identities. 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.

Prerequisite: Successful completion of JMP K-8 with teacher recommendation or Intermediate Mid level of proficiency in Japanese or higher.



PHYSICAL EDUCATION & HEALTH

PE and Health are graduation requirements that most students complete in 9th and 10th grade. Some 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. Either choice satisfies your graduation requirement.

Required Physical Education and Health Education Credits

One Year Track:

Fit2Live&Learn

(One Year Track)
(available 9th - 11th grades)

Students are double-blocked 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.

Two Year Track:

Cross Training

(Two Year Track)
(available 9th - 12th grades)

The Cross Training curriculum addresses the same state and national standards for physical education in a singular approach (compared to the combined approach of Fit2Live&Learn). Students will complete ONLY the required PE credit with a full year of Cross Training. *Health must be taken separately for credit after Freshman year.

Health

(available 10th - 12th grade years)

Health education prepares students to shape their behavior in health-enhancing ways. Students learn to access valid and reliable health information, analyze the influences in their lives, communicate effectively, and use real life scenarios to practice making decisions and set attainable goals.

FIT 2 LIVE AND LEARN: (One Year Track) This daily, double-blocked Health and P.E. course features a holistic approach to fitness and developing a healthy lifestyle. The Fit2Live & Learn program provides a yearlong focus on developing optimal exercise, healthy eating, and mental strength habits for our students. Students exit the program with the skills and knowledge to identify and apply healthy lifestyle choices. Our students will understand the implications of healthy, fit living and its effect on one's cognitive, social, and emotional wellbeing.

Note: Students are strongly encouraged to take this course at the freshman or sophomore level.

CROSS TRAINING: (Two Year Track) This program is designed to improve individual physical fitness. Personalized fitness programs are not a component of this class. The CrossFit program will include techniques and safety work on all the barbell lifts and concentrate on training strategies for improving explosive movement patterns.

COURSE OFFERINGS

BUSINESS & CTE (Career & Technical Education courses)

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.

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.

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.

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.

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 design and make things by hand and with machines in the makerspace? Do you like choosing your own projects or participating in design and building challenges with your peers? In this hands-on, project-based class you will learn engineering using the tools and design processes used by engineers. These include hand tools, computer aided design (CAD), digital fabrication (3D printing & laser cutting), and many others...

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.

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.

ROBOTICS 1 - 2: Do you want to design, build, and program robots that perform a wide variety of tasks as well as compete in class challenges? In this project-based course, you will build and program self-driving robots and remote-controlled robots. Previous programming experience is helpful, but not required.

WOODWORKING 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.



VISUAL ARTS

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.



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 objects. We will explore the 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 will help them learn about the potential of their own equipment. Evaluation is based upon completion of assignments, keeping an up-to-date notebook, participation in group discussions, and quality of work.

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.

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 research into practice.

PERFORMING ARTS

CHOIR

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!

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!

DANCE

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.

INSTRUMENTAL

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.

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.

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.



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

SYMPHONIC BAND: Symphonic Band is a preparatory concert ensemble for Wind Ensemble consisting primarily of 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.

THEATRE

ACTING: BEGINNING: This course 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!

GENERAL ELECTIVES

INTRODUCTION TO JOURNALISM: 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 Grade

You take 8 classes each year and you work with your counselor to make a graduation plan in your freshman year. This can help you as you start to think about earning all of your high school credits. Use this planner to plan your choices for 9th grade.

Plan A: F2LL - One Year Track	
Sample	Your Choices
<i>English 1-2</i>	English 1-2
<i>9TH Grade Inquiry</i>	9 th Grade Inquiry
<i>NGSS Physics 1-2</i>	NGSS Physics 1-2
<i>Algebra 1 -2</i>	Math -
<i>Fit to Live and Learn (PE)</i>	Fit to Live and Learn (PE)
<i>Fit to Live and Learn (Health)</i>	Fit to Live and Learn (Health)
<i>Elective #1</i>	
<i>Elective #2</i>	

Plan B: Cross Training - TwoYear Track	
Sample	Your Choices
<i>English 1-2</i>	English 1-2
<i>9TH Grade Inquiry</i>	9 th Grade Inquiry
<i>NGSS Physics 1-2</i>	NGSS Physics 1-2
<i>Algebra 1-2</i>	Math -
<i>Cross Training</i>	
<i>Elective #1</i>	
<i>Elective #2</i>	
<i>Elective #3</i>	