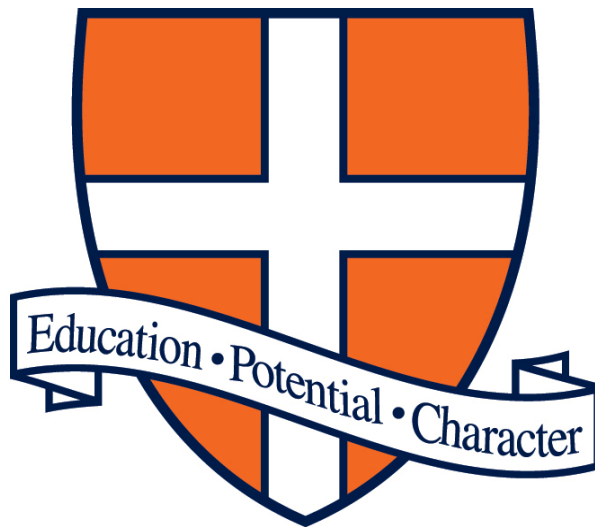
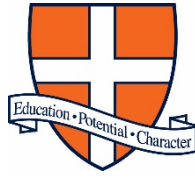


# **US COURSE REGISTRATION GUIDE**



## **The Brook Hill School**

**2020-2021**



## THE BROOK HILL SCHOOL

1051 N. Houston Street Bullard, TX 75757

903-894-5000 | Fax 903-894-6332

Dear Students and Parents,

This guide has been created to assist you in making informed decisions regarding course selections. It includes important information related to graduation requirements, registration policies and procedures, and available courses. Discussions between parents and students are an essential part of course selection, and students are encouraged to use this guide as a resource to plan for the future.

If you have questions about course selection or the registration process, please feel free to contact the Academic Office at 903-894-5000 or email us directly at [ctucker@brookhill.org](mailto:ctucker@brookhill.org) or [abouwer@brookhill.org](mailto:abouwer@brookhill.org).

Sincerely,

Celia Tucker and Ashley Bouwer  
Academic College Counselors  
The Brook Hill School

**Commit to the Lord whatever you do, and your plans will succeed.  
Proverbs 16:3**

**We encourage you to make all course decisions through prayer and with your future goals in mind.**

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## **GRADUATION REQUIREMENTS for the class of 2021+**

### **DISTINGUISHED GRADUATION PLAN**

ENGLISH	4 credits
HISTORY	2 credits
U.S. HISTORY	1 credit
AMERICAN GOVERNMENT	½ credit
MACRO-ECONOMICS	½ credit
MATHEMATICS	4 credits
SCIENCE	4 credits
FOREIGN LANGUAGE	3 credits <sup>1</sup>
FINE ARTS	1 credit
BIBLE	2 credits <sup>3</sup>
PHYSICAL EDUCATION	1 credit
SPEECH	½ credit
SENIOR SEMINAR	½ credit
ELECTIVES	3 credits

**TOTAL 27 credits\***

**\*At least four credits must be from the advanced course list on page 5.**

### **RECOMMENDED GRADUATION PLAN**

ENGLISH	4 credits
HISTORY	2 credits
U.S. HISTORY	1 credit
AMERICAN GOVERNMENT	½ credit
MACRO-ECONOMICS	½ credit
MATHEMATICS	4 credits
SCIENCE	4 credits
FOREIGN LANGUAGE	2 credits <sup>1,2</sup>
FINE ARTS	1 credit
BIBLE	2 credits <sup>3</sup>
PHYSICAL EDUCATION	1 credit
SPEECH	½ credit
SENIOR SEMINAR	½ credit
ELECTIVES	3 credits

**TOTAL 26 credits**

<sup>1</sup> Foreign language credits must be within the same language.

<sup>2</sup> Foreign language requirement may be modified for students with documented learning disabilities.

<sup>3</sup> Bible requirement may be modified for transfer students.

# **ACADEMIC DISTINCTIONS**

The Brook Hill School recognizes seniors for outstanding academic achievement with specific graduation distinctions. These distinctions are divided into three levels: Cum Laude, Magna Cum Laude, and Summa Cum Laude.

## **Cum Laude**

A student achieving an overall Brook Hill GPA of 3.75 or above will be given the distinction *cum laude (with praise)*. Recognition of this distinction will appear on the student's transcript, and the student will be given a bronze cord to wear during graduation ceremonies.

## **Magna Cum Laude**

A student achieving an overall Brook Hill GPA of 3.75 or above and successfully completing four advanced courses will be given the distinction *magna cum laude (with great praise)*. Recognition of this distinction will appear on the student's transcript, and the student will be given a silver cord to wear during graduation ceremonies.

## **Summa Cum Laude**

A student achieving an overall Brook Hill GPA of 3.75 or above and successfully completing eight advanced courses will be given the distinction *summa cum laude (with highest praise)*. Recognition of this distinction will appear on the student's transcript, and the student will be given a gold cord to wear during graduation ceremonies.

## **Advanced Courses**

Because the following courses are AP, DC, or the highest level in the discipline, they may be used to fulfill the requirements for magna cum laude or summa cum laude.

Advanced Spanish 4 (AD)  
Advanced Spanish 5 (AD)  
Spanish Language 4 (AP)

2-D Art and Design (AP)  
3-D Art and Design (AP)  
Drawing (AP)

Anatomy/Physiology (AD)  
Biology (AP)  
Biology (DC)  
Chemistry (AP)  
Environmental Science (AP)  
Physics 1 (AP)  
Physics 2 (AP)

Business Math (DC)  
Calculus AB (AP/DC)  
Calculus BC (AP/DC)  
College Algebra (DC)  
College Trigonometry (DC)  
Introduction to Statistics (DC)

English 11 (AP)  
English 12 (AP)  
Advanced U.S. History 11 (AD)

Psychology (AP)

# **COURSE PLANNING WORKSHEET – Class of 2021+**

Please utilize this worksheet to plan your upper school curriculum. By completing this before your freshman year and refining/updating each following year, this planning exercise can aid in ensuring that your overall course selections communicate your level of academic challenge and college preparation.

## **8th grade\***

**1** Algebra 1

**2** Spanish 1

## **9th grade**

**1** Humanities 9 - English

**2** Humanities 9 - History

**3** Math

**4** Science

**5** Foreign Language

**6** Fine Arts

**7** Study Hall

**8** PE/Athletics (required)

## **10th grade**

**1** Humanities 10 – English

**2** Humanities 10 – History

**3** Math

**4** Science

**5** Foreign Language\*\*

**6** Elective

**7** Speech / Test Prep

**8** PE/Athletics (optional)

## **11<sup>th</sup> Grade**

**1** Humanities 11 – English

**2** Humanities 11 – U.S. History

**3** Math

**4** Science

**5** Foreign Language\*\*

**6** Elective

**7** Bible 11

**8** PE/Athletics (optional)

## **12<sup>th</sup> Grade**

**1** English

**2** Government (DC) / Economics (DC)

**3** Math\*\*

**4** Science

**5** Elective

**6** Bible 12 / Senior Seminar

**7** PE/Athletics (optional)

\*Only courses taken for high school credit (Algebra 1, Spanish 1)

\*\*If requirement has already been met, this course may be replaced by an elective.

**In subjects where Pre-AP, Honors, Advanced or AP are offered, students must have a 90 or above in the preceding course and a teacher recommendation.**

# **REGISTRATION POLICIES & PROCEDURES**

## **ELIGIBILITY FOR REGISTRATION**

### **RETURNING STUDENTS**

The Admissions Office and Business Office will determine a returning student's eligibility to register for the next year. Once cleared through both offices, the Academic Office will process course request form and create a class schedule. This class schedule will be available for viewing through RenWeb to allow students time to purchase books and complete summer reading. Course placement will continue to change until school begins because of leveling, staff changes, etc.

### **NEW STUDENTS**

The Admissions Office and Business Office will determine a new student's eligibility to register for the next year. Once cleared through both offices, the Academic Office will receive the student's completed file (including final grades from previous school year and complete official transcript(s) documenting all high school work) and will contact the student/parents to schedule a registration appointment during one of the set New Student Registration Days. Please note that placement testing might be required; therefore, required testing must be complete prior to the registration appointment. If the student is required to take the English Proficiency Exam to determine placement in ELL or Humanities, the student will be required to register in August following the English testing.

#### **New Student Registration Days**

June 10, 2020

July 15, 2020

August 3-4, 2020

## **COURSE AVAILABILITY**

The preliminary choice of courses during the registration process helps to establish the widest range of individual choice. It is, however, sometimes necessary to ask students to accept modifications to their original choice. This may be due to:

- An insufficient number of students selecting a course so that it is no longer viable.
- Encountering scheduling difficulties - one course conflicting with another.

We ask students to be flexible in their course selection choices. We always hope to meet the requests of students to help them in their planned course of study.

## **DROP/ADD COURSE POLICY**

Ordinarily, students will not be permitted to add or drop courses after the start of the semester in which the course begins. Students are expected to be conscientious in their decision-making regarding course selection. Teachers, students, parents, and the Academic Counselor are all involved in the process. Therefore, once a program of study has been initiated, changes to selections can occur only if:

- A student has been incorrectly placed
- A student finds an elective course is not meeting his or her expectations during the eight-day drop/add period
- A student needs a specific course to qualify for college/university admission
- There is a medical reason for course change
- Credit has already been granted for the course in question
- A prerequisite for the course in question has not been met

A student may request to drop or add a course during this eight-day period by submitting a Schedule Change Request Form. A student will be required to continue attendance of the original class until the schedule change is reflected on RenWeb. In addition, seniors wishing to drop a course after transcripts have been sent to colleges and universities must notify each institution of the modification to their academic program.

The Academic Counselor will review the request with the US Principal prior to the change. Schedule changes initiated by the administration, to balance class sizes, may occur at any time.

## **REGISTRATION PROCEDURE**

### **RETURNING STUDENTS**

Registration is completed with students by appointment with the Academic Counselor during the spring semester.

### **NEW STUDENTS**

Registration is completed by appointment with the Academic Counselor during one of the New Student Registration Days. New boarding students will be contacted individually for scheduling.



# **COLLEGE-MINDED COURSE SELECTION**

## **What is the best piece of advice you can give a prospective student?**

**“Take tough courses and do your best in them.”**

Douglas L. Christiansen, Ph.D.  
Associate Provost for Enrollment and  
Dean of Admissions  
Vanderbilt University

**“Take ownership of this process, and be sincere. Too often we see students pressured by those around them to pursue curriculums that aren’t appropriate for them...because they “look good” on a college resume. I would tell a student to take advice from others, but ultimately pursue the courses...that truly motivate and inspire him or her.”**

**“If you are going to do something, do it well.”**

Jean Jordan, Dean of Admission  
Emory University

**“This is YOUR education and YOUR college application. Having that dedication, ownership, and sincerity will not only shine through to the admissions committee, but will ultimately make for a more fulfilling high school experience.”**

Jacinda Ojeda, Regional Director of Admissions  
University of Pennsylvania

### **Colleges care about which courses you're taking in high school.**

The courses you take in high school show colleges what kind of goals you set for yourself. Are you signing up for advanced classes, honors sections, or accelerated sequences? Are you choosing electives that really stretch your mind and help you develop new abilities? Or are you doing just enough to get by?

As you select your high school courses, your focus should be on satisfying requirements, both for graduation and upcoming college admissions. But you will also want to take courses that will stimulate you and that you will enjoy. As early as possible, create a course plan that will express your interests and demonstrate your work ethic and academic ability.

**BOTTOM LINE:** Colleges will look to your courses and grades to determine whether you are academically prepared, intellectually curious, and up to the challenge of taking progressively harder courses or participating in innovative programs. So, choose classes that interest AND challenge you! Colleges will be more impressed by respectable grades in challenging courses than by outstanding grades in easy ones.

### **Senior courses DO matter.**

Colleges can (and do) revoke offers of admission if senior courses and grades do not reflect the same level of academic performance as the rest of your transcript. Do not let your academic guard down!

**“Just as you would want to be in top condition for the start of an athletic season, so, too, do you want to be in top condition for the academic season that begins in August. The habits you form now—your academic strength conditioning—will either help or hurt you in the transition from high school to college. Keep in shape for the rest of the year. We’re counting on your success—next fall and beyond.”**

-Stanley E. Henderson, Associate Provost, University of Illinois

*Adapted from Position yourself in high school to get into the college of your choice by Cynthia Hickman and Plan Your High School Course Selections ([www.act.org](http://www.act.org))*

# **ADVANCED PLACEMENT AND DUAL CREDIT**

The Brook Hill School provides students two paths to gaining college credit in high school: Advanced Placement and Dual Credit. These programs are very different in structure but both end in the potential for college credit. Please refer to the information below for more details regarding the individual programs.

## **ADVANCED PLACEMENT (AP)**

AP provides students with an opportunity for learning that goes beyond just facts and figures. The rich course material, classroom discussions and demanding assignments typical of AP courses will help students develop the content mastery and critical thinking skills expected of college students. What's more, by participating in AP, a student has the opportunity to earn college credit and to stand out in the college admission process.

College credit is not automatically given for participation in or successful completion of an AP course. AP students will have the opportunity to take an AP Exam at the end of the course. Students are responsible for the cost of the AP Exam. With qualifying AP Exam scores, a student can earn credit, advanced placement or both at the majority of colleges and universities in the United States and Canada. Individual colleges and universities, not the College Board or the AP Program, grant course credit and placement. Students should obtain a college's AP policy in writing. This information can be found directly through the institution's website or by using the AP Credit Policy Info search at [www.collegeboard.com/ap/creditpolicy](http://www.collegeboard.com/ap/creditpolicy).

Since AP courses are taught at a collegiate-level, it is important for students to make a wise and informed decision regarding whether to register for an AP course. Please refer to the course descriptions for additional information regarding placement criteria for AP courses.

## **ADVANCED PLACEMENT (AP) COURSES OFFERED AT BROOK HILL:**

2-D Art and Design	English Language and Composition
3-D Art and Design	English Literature and Composition
Biology	Environmental Science
Calculus AB	Physics 1
Calculus BC	Physics 2
Chemistry	Psychology
Drawing	Spanish Language

## **DUAL CREDIT (DC)**

Dual Credit courses offer students the opportunity to get high school and college credit simultaneously. All Brook Hill Dual Credit courses are taken on our campus, are taught by Brook Hill faculty, and can be taken to receive college credit at Tyler Junior College or Colorado Christian University. All dual credit courses will appear on your Brook Hill transcript as "DC" meaning they are taught at the college level.

A student can take any Dual Credit course at Brook Hill and choose not to pursue the college credit through TJC or CCU. In this case, the course would count ONLY for high school credit and would appear ONLY on the high school transcript. To receive college credit a student must register with the college, meet the college's requirements, and pay tuition to the college.

**What is the cost of a Dual Credit course?**

The high school credit portion of the course is included in Brook Hill tuition. If a student pursues college credit through TJC or CCU, he must also pay tuition to the college. The cost is based on whether a student lives within the district (TJC only) and how many hours he or she is taking (TJC or CCU).

**What does it mean when a class is both AP and Dual Credit?**

An AP/DC course offers two options for earning college credit. A student who opts to pursue Advanced Placement credit will complete the course and then take the AP exam in May. Students are responsible for the cost of the AP exam. Colleges use a student's AP exam score to determine amount of college credit to award. The actual credit and number of hours awarded is determined by the student's performance on the AP exam and the college's credit by examination policy. A student who opts to pursue Dual Credit will enroll through TJC or CCU to receive college credit.

**Should I pursue credit through AP, DC, both, or neither?**

This answer depends on several factors. Required higher education courses vary based on the student's major and where he or she plans to attend college. It is best to research specific degree plans at colleges of interest before choosing the route to earn college credit. In some instances, you can receive different credit from AP and DC. Therefore, it could be advantageous to pursue both. Some colleges will not grant credit for DC or AP exam scores.

**Can I change my mind about pursuing Dual Credit?**

Tyler Junior College and Colorado Christian University have set deadlines for students to withdraw from the college credit class without having a grade posted. If you withdraw from the course by this deadline, a "W" will be posted on your college transcript for the course. Withdrawing from the TJC or CCU course does not affect your enrollment in the high school credit portion of the course.

**How do I enroll in the Dual Credit course?**

Tyler Junior College and Colorado Christian University require students to complete a specific enrollment process each semester. Students MUST complete ALL steps of the process to secure enrollment in the course.

## **Dual Credit Courses**

### **Students Must Register And Pay Tuition For Both Fall And Spring Semesters**

Tyler Junior College (TJC) Colorado Christian University (CCU) The Brook Hill School  
Fall/Spring 2020-21

#### **High School Course**

College Algebra/Trigonometry  
Statistics/Business Math  
Calculus AB

#### **Dual Credit Course**

TJC Math 1314/1316 (6) Fall/Spring  
TJC Math 1342/1324 (6) Fall/Spring  
TJC Math 2413 (4) Spring  
Total Available: 16

Government  
Economics  
US History  
English 12  
Biology DC  
Business Principles  
Marketing

CCU POL-207 AmGov (3) Fall /Spring  
CCU ECO-215 (Intro to Econ) (3) Fall/Spring  
CCU HIS- 205/206 (6) Fall/Spring  
CCU ENG 102/104 (6) Fall/Spring  
CCU BIO 101/111 (4) Spring  
CCU BUS 101 (3) Fall/Spring  
CCU MKT 202 (3) Fall/Spring  
Total Available: 28

#### **College Requirements:**

- Apply for admission and test at TJC.
- Take scores to the TJC Dual Credit Office (TSI pre-assessment [www.tjc.edu/testing](http://www.tjc.edu/testing) )
- TSI Exemptions: PSAT 460 R, 510 M SAT 480 R, 530 M, ACT 23 C, 19 M, 19 R

**For TJC courses, students must be exempt or present passing scores on the TSI before they are allowed to register for college classes. After the CA (Counselor Approval) form is signed students will present it to TJC with payment. Payment arrangements will be made with each individual college as Brook Hill will not send reminders or intervene as far as payment or testing is concerned.**

**Summer Course #'s: TJC Gov't (2305 (Federal) Econ 2301 (Macro)**

Tyler Junior College:

[http://www.tjc.edu/info/2004237/how\\_to\\_apply/147/dual\\_creditearly\\_admission\\_student](http://www.tjc.edu/info/2004237/how_to_apply/147/dual_creditearly_admission_student)

Colorado Christian University:

Registration is online: [www.ccu.edu/dualcredit](http://www.ccu.edu/dualcredit)

Tyler Junior College Contact Information:

Stephanie Mayo: [smay@tjc.edu](mailto:smay@tjc.edu)

Business Office: 903-510-2672

Dual Credit Office Location: 1421 S. Baxter-Wesley Building

Fax: 903-510-2161

Testing Center Location: Rogers Student Center 2nd Floor

Testing Center: 903-510-2617

Dual Credit Email: [dualcredit@tjc.edu](mailto:dualcredit@tjc.edu)

Dual Credit Office: 903-510-2519/903-510-2716

Admissions: 903-510-2523

Colorado Christian University Contact Information:

Evan Verbal 303-963-3029 [dualcredit@ccu.edu](mailto:dualcredit@ccu.edu)

(Dual credit information revised 05/04/20)

## **WEIGHTED GRADES**

The Brook Hill School prides itself on being a college-preparatory school providing a comprehensive curriculum that is rigorous. Requirements for some courses are even more demanding. As such, select Pre-Advanced Placement, Advanced, Dual Credit, and Advanced Placement classes receive extra weighting. These additional values are added to the numerical average before the grade point average (GPA) is determined. ***Students are rewarded with extra points for choosing to take the “more advanced option” where there are different levels of courses to choose from and for choosing certain junior and senior level electives. Courses that meet the minimal standards for graduation do not receive extra weight.***

Some courses which have been approved through Tyler Junior College or Colorado Christian University for dual credit, may receive an extra weighting of 3 or 5 points. A student does not have to be enrolled through the college to receive these additional points since all students in the class must complete the same work.

Courses designated as Advanced Placement (meeting the rigor of the College Board’s course audit protocol), will receive an extra weighting of 5 points. Although recommended, the student is not required to take the AP exam to receive the points.

Some courses at Brook Hill have the designation of both DC and AP. These courses receive 5 points.

Some courses labeled Pre-AP (PR) or Advanced (AD) will receive 3 or 5 extra points. Courses are evaluated during the spring of each year before receiving the PR or AD designation for the coming year.

The courses approved for weighting as well as PR, AD, DC, and AP status may change from year to year based upon course offerings, approval from the local colleges, and College Board audit status.

### **The following courses receive 5 extra points at Brook Hill:**

2-D Art and Design (AP)	College Algebra/College Trigonometry (DC)
3-D Art and Design (AP)	Drawing (AP)
Advanced Spanish 4	English 12 (AP)
Advanced Spanish 5	Environmental Science (AP/DC)
Anatomy/Physiology (DC)	Humanities 11 (AP/AD)
Biology (AP)	Physics 1 (AP)
Calculus AB (AP/DC)	Physics 2 (AP)
Calculus BC (AP/DC)	Psychology (AP)
Chemistry (AP)	

### **The following courses receive 3 extra points at Brook Hill:**

Algebra 2 (PR)	Chemistry (PR)
Art 2 (PR)	Geometry (PR)
Biology (DC)	Humanities 9 (PR)
Biology (PR)	Humanities 10 (PR)
Business Math/ Statistics (DC)	Spanish 3 (PR)

***These points are added upon successful completion of the course and are posted after final grades are submitted by the instructor, and as a result, will not be used in the determination of exam exemptions.***

# **COURSE DESCRIPTIONS**

# **BIBLE DEPARTMENT**

The school is committed to the Bible as God's revealed Word; therefore, our emphasis in the Bible curriculum is to teach our students to read and study the Bible for themselves. Our approach is inductive, raising the questions necessary to involve the learner in the text and make valid conclusions from the reading. Our desire is that the reading and study will lead each student into a deeper walk with Christ. The Bible classes are designed to help the students develop a Christian worldview and an understanding of how biblical principles apply to the situations they face today.

The Brook Hill Bible Department teaches three different approaches to Bible study: historical, literary, and theological. The middle school focuses on a historical approach. Middle school students learn the major people, places and events of the Bible. Grades 9 and 10 focus on a literary approach. During these grades students learn how to recognize and interpret literary devices in the Bible. Grades 11 and 12 explore a theological approach. During their final two years at Brook Hill, students develop hermeneutical skills, compare a Christian worldview with that of other major religious traditions, and study apologetics.

## **Bible 9 & 10**

In 9th and 10th grades, Bible is integrated into the Humanities curriculum. Key books and sections of the Old Testament (Genesis, Exodus, 1 & 2 Samuel, 1 & 2 Kings, Ezra, Nehemiah, Esther, and Job) are studied in 9th grade along with the history and literature of the ancient world. In the 10th grade, New Testament books (including Luke, Acts and Revelation) are studied in connection with the Roman world of the first century.

## **Bible 11**

Grade: 11

Two Semester Course

Credit: 1.0

This course will formally introduce students to the concept of a Christian Biblical Worldview. Although no particular denominational perspective will be taught, the course will emphasize the historical orthodox views of the Church concerning the Bible, God, Jesus Christ, Christ's Death, Humanity and Sin, the Holy Spirit, Salvation, Angels, Satan and Demons, the Church, and Eschatology. Students will also develop inductive Bible study skills as they study the book of Romans. The second semester will then cover other world religions in an effort to understand how these worldviews both compare and contrast with a Christian worldview.

## **Bible 12**

Grade: 12

Two Semester Course

Credit: 1.0

Senior Bible is a capstone course designed to prepare students for the rigors of college. University life challenges students on a number of fronts and this course will do the same. Students who successfully complete the course will be familiar with C. S. Lewis and his numerous explanations of Christian faith. Students will also have a rudimentary understanding of common objections to Christian beliefs and evaluate both the strengths and weaknesses of these claims.

# **FINE ARTS DEPARTMENT**

The role of the Fine Arts Department is to develop the talents, ideas, skill, and creativity of each Brook Hill student through the study of the visual and performing arts, as well as to enrich their lives. Through this process the student gains an appreciation for beauty and a cultivation of the skills necessary for self-expression and communication.

The study of the Fine Arts nurtures a perception of the beauty of God's creation and through it, the beauty of God, the Creator. The student begins to discover, as Dr. Francis Schaeffer summarizes, that "the Christian is one whose imagination should soar beyond the stars."

## **Studio Art 1: Foundations**

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

Two Semester Course

Credit: 1.0

Foundations is an introductory level year long course in two-dimensional art and an introduction to three-dimensional work. Students obtain foundational skills in design, drawing, painting, sculpture, printmaking, color theory and art criticism. Emphasis is placed on developing compositions using the elements of art and the principles of design. A variety of media and techniques are explored. Art history is integrated with attention to Impressionism and Post-Impressionism. Lab required.

## **Art 2 (Pre-AP)**

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

Two Semester Course

Credit: 1.0

Pre-AP builds on the foundations learned in Studio Art 1. The focus in Pre AP is the Breadth Section of the AP Portfolio, where student hone their skills to produce college level work that may be used the following year in the AP Portfolio for college credit. This class is primarily 2-D (Drawing and Painting) but arrangements can be made if a student is interested in 3-D. Lab required. ***Students who successfully complete this course will receive three additional points added to their semester averages.***

## **2-D Art and Design (AP)**

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisite(s):

- Four semesters of studio art
- Instructor approval

The AP Studio Art: 2-D Design course is designed for the purpose of advancing serious art students to produce a college level portfolio that shows mastery in concept, composition, and the execution of 2-D design. Students should expect the course to be rigorous in nature. The course is not based on written work but rather on a body of studio work that is submitted to the College Board for grading. The 2-D design portfolio may include traditional or experimental approaches to 2-D design. The portfolio may be rendered in any of the following media: drawing, painting, printmaking, mixed media, collage,



photography or digital media. As a department, we believe that art is a process that stresses thinking creatively, skill development and critical analysis. Students learn to take inventive and informed risks. In order to be prepared for the program the artist should take two semesters of 2-D art (drawing printmaking, painting), as well as the one-year foundational art class. This also allows them to use successful work from previous years in their portfolio. Lab required. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

### **3-D Art and Design (AP)**

Grade(s): 11, 12

Two Semester Course                      Credit: 1.0

Prerequisite(s):

- Four semesters of studio art
- Instructor approval

The AP Studio Art: 3-D Design course is designed for advancing serious art students to produce a college level portfolio that shows mastery in concept, composition, and the execution of 3-D design. Students should expect the course to be rigorous in nature. The course is not based on written work but rather on a body of studio work that is submitted to the College Board for grading. The 3-D design portfolio may include traditional or experimental approaches to 3-D design. As a department, we believe that art is a process that stresses thinking, creativity, skill development and critical analysis. Students learn to take inventive and informed risks. In order to be prepared for the program the artist should take two semesters of 3-D art (ceramics and sculpture), as well as the one-year foundational art class. This also allows them to use successful work from previous years in their portfolio. Lab required. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

### **Drawing (AP)**

Grade(s): 11, 12

Two Semester Course                      Credit: 1.0

Prerequisite(s):

- Four semesters of studio art
- Instructor approval

The AP Studio Art: Drawing course is designed for the purpose of advancing serious art students to produce a college level portfolio that shows mastery in concept, composition, and the execution of drawing. Students should expect the course to be rigorous in nature. The course is not based on written work but rather on a body of studio work that is submitted to the College Board for grading. The drawing portfolio may include traditional or experimental approaches to drawing. The portfolio may be rendered in a variety of drawing media and techniques. As a department, we believe that art is a process that stresses thinking, creativity, skill development and critical analysis. Students learn to take inventive and informed risks. In order to be prepared for the program the artist should take 2 semesters of 3-D art (drawing printmaking, painting), as well as the one-year foundational art class. This also allows them to use successful work from previous years in their portfolio. Lab required. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

**Dance**

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

Two Semester Course

Credit: 1.0

Dance begins with the demarcation of various dance styles: ballet, modern, jazz, lyric, musical, and hip-hop. Turns, hops, jumps, and leaps are introduced at this level. With these additions to our stretching the proper placement, especially of the knee, is of the utmost importance to prevent injury. Students spend time moving across the floor and are primarily focused upon coordinating isolation movement phases. Student projects will include independent dance research and student choreography. Participation is mandatory.

**Drum Line**

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

Two Semester Course

Credit: 1.0

Prerequisite(s): Instructor approval

The Brook Hill Drum Line *Spirit of the Guard* is open to grades six through twelve and is limited by the number of instruments in the line as well as by skill level of interested students. This course requires that the student go through tryouts and be selected and assigned to an instrument position by the drum corps instructors. The class meets two times per week for practices that last one hour and fifteen minutes each in addition to any performances that are scheduled for that week including football games, basketball games, parades, pep rallies, TAPPS musical competitions and other public performances. Some performances necessitate travel. Students are expected to attend all practices and performances as well as practice on their own in addition to group practices. Students in this course will need to have the physical ability to walk long distances for extended periods of time while carrying and playing instruments that could weigh up to 50 pounds. There will be times when students will be exposed to uncomfortable conditions (such as cold weather during football games and Christmas parades). Students in this course will need the ability to work well with a larger group and take instruction and execute those instructions at a moment's notice. The *Spirit of the Guard* Drum Line is a beloved component of the school and has proven to be essential to school spirit while performing at games and pep rallies. To be a member of this esteemed group of young men and women is an honor that is not to be taken lightly. With the public exposure that this group enjoys, all members will need to be willing to conduct themselves in a manner that is worthy of Brook Hill in all settings.

**Guitar 1**

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

Two Semester Course

Credit: 1.0

Guitar is a 2-semester class designed for the novice to near novice guitar player. Students will learn to play basic open chords, then bar chords and "Jazz" chords. We will also learn to improvise over basic blues and diatonic patterns as well as learn a little basic theory. Most of the music used in the course will be Christian Praise and Worship songs with a few exceptions. Students will be required to do a few performances each semester as their ability grows.

**Guitar 2**

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

Two Semester Course    Credit: 1.0

Guitar 2 is a 2-semester class designed for the experienced guitar player, preferably who has successfully completed Guitar 1. Students will learn to play all elements of a small Praise Band from lead guitar to rhythm and acoustic to electric. Students will also be required to learn some basic piano chords, drum beats, and bass lines. Most months the Guitar 2 class will be responsible for providing music for 1 or more chapel services. Almost all of the music used in the course will be Christian Praise and Worship songs with a few exceptions.

**Varsity Choir**

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

Two Semester Course                      Credit: 1.0

Prerequisite(s): Audition required

Varsity Choir is an advanced varsity mixed choir. This is an auditioned choir of 9th through 12th graders with previous years of choral training, excellent sight-reading skills, and a self-disciplined work ethic. This is our primary performance group and its pace is quick and expectations are high. Members are encouraged to compete in the TMEA All-Region Choir auditions in the fall. All members are required to participate in the TAPPS vocal events as an ensemble member. Participating in the solo events is optional. Members are required to participate in all concerts and must complete one fine arts observation credit per semester. All members are expected to retain grade eligibility and maintain a professional standard of character representing the excellence and tradition of the Guard Chorale.

**US Drama**

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

Two Semester Course    Credit                      : 1.0

The Upper School Drama course is designed for those students desiring a challenging and performance oriented theatrical experience. The course introduces students to theatre and to the basic acting concepts of stage voice, characterization, and stage direction. Students will develop their acting ability through oral interpretations and improvisational exercises followed by monologues and duet scenes. Advanced students will have the opportunity to experience competitive aspects of speech and drama. Selection and preparation of competition level literature for the TAPPS district and state tournaments is a principle activity. Exercises will include classroom performances and peer critiques of humorous and dramatic oral interpretations, poetry reading, monologues, improvisational games and duet acting. Additionally, students will receive hands-on instruction in play production techniques and may serve as technical crew heads for Brook Hill productions. The course includes a mandatory observation component that may be satisfied by attending pre-approved theatrical productions.

By participating as part of a cast working toward a creative goal, students will develop qualities that promote maturity: teamwork, cooperation, and dependability. They will also gain a deeper insight into people and human nature by studying characterization in numerous plays. Personal growth is observed as students gain confidence and poise from frequent participation on the stage. Improved body coordination and vocal flexibility that young people need for everyday communication also result from active participation in the drama class.

**Stage Craft**

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

Two Semester Course

Credit: 1.0

Stagecraft is a hands-on course that gets students working with the tools and techniques of theatrical production in a practical way. It is not a design course but one devoted to artisanship. Stagecraft introduces students to the technical aspects of theatre production such as set design and construction; lighting, sound, prop construction and house and publicity. Students learn the skills needed to construct scenery, hang and focus lighting instruments, and implement a sound system. Students are trained in the usage of tools, lumber, and machinery. Students will play an active role in the various productions of the school year.

In an era when woodshops have been replaced by computer labs, the course provides an opportunity for students to learn the difference between a crescent wrench and a socket wrench, and how to read and follow building plans.

Stagecraft is, by definition, a CRAFT. Upon the successful completion of Stagecraft, students will have gained skills, knowledge and enduring understandings that will benefit them for the rest of their lives, regardless of whether they pursue a career in theatre. Whether they are called on to express abstract ideas in a public forum, build bookshelves for a new home, paint walls for Habitat for Humanity, move their own furniture or get the lighting just right in a fussy baby's bedroom – stagecraft will provide skills and knowledge that will continue to answer daily needs far into their futures.

**US Orchestra**

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

Two Semester Course

Credit: 1.0

Prerequisite(s): Instructor approval

This class is designed for students who have studied a string instrument for at least two years. Students will receive individual and group instruction in advanced instrumental techniques and ensemble playing. There will be both required and optional school and community performances. Preparation and participation in TMEA and TAPPS music contests will be primary activities.

**Visual Media/Yearbook**

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

Two Semester Course

Credit: 1.0

Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment. Students will also learn about the collecting and editing of material of interest for presentation through the medium of the school yearbook. The editorial/photography staff learns to take acceptable pictures, how to design layouts and learn to use a computer program designed for the production of the school yearbook. The business staff learns how to sell to the public in a professional manner and create camera-ready patron pages on the computer.

# **FOREIGN LANGUAGE DEPARTMENT**

God is a communicator. In fact, He calls Himself the Word. The study of a foreign language and culture helps the student understand more of the diversity of God's creation. Foreign language is the study of another people's language and culture. Through study, the student obtains proficiency in speaking a new language conversationally and also begins to understand a different culture. The process of learning a new language also enriches the student's English vocabulary. In today's world, knowledge of another language is a great asset in obtaining a job in many highly competitive fields. Each foreign language class will integrate a variety of lab activities and internet activities into the curriculum to improve speaking, listening, and reading skills and to aid in the acquisition of structure, vocabulary and culture.

## **Spanish 1**

Grade(s): 9, 10, 11

Two Semester Course Credit : 1.0

First year Spanish language study is an in-depth introduction to the Spanish language, culture and history of the Spanish-speaking world. Learning in the target language is aimed at acquisition in the following areas: oral proficiency, listening comprehension, reading comprehension, writing formally and informally, and historical and cultural awareness.

## **Spanish 2**

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

Two Semester Course Credit : 1.0

Prerequisite(s): Spanish 1, Placement test required for transfer students

Students will continue building on the skills learned in the Spanish 1 course. They will focus on attaining higher skills in each of the five learning areas solidifying their language acquisition and preparing for a deeper appreciation and understanding of the target language and its people. More complex grammar structures are introduced requiring the students to know more tenses of oral conversation as well as have the ability to write fluently in the language. Literature is introduced at a basic level in the target language in order to help students read for understanding and gain exposure to authors that make up Spanish literary classics. Cultural awareness focuses on artists who have shaped Spanish arts, crafts and modern music.

## **Spanish 3 (PR)**

Grade(s): 10, 11, 12

Two Semester Course Credit : 1.0

Prerequisite(s): Spanish 2, Placement test required for transfer students

Students will continue to build on a solid foundation of language skills in the target language received in levels 1 and 2. They will aim toward proficiency in oral conversation. Students will receive a majority of their instruction in the target language requiring understanding and the ability to manipulate the language comfortably between one another and with native speakers when the opportunity is available. The students will be introduced to more complex structure of the language through literature,

classroom interactions, field trips, and other activities in order to accomplish proficiency. The five areas of learning: oral proficiency, listening, comprehension, reading comprehension, writing, and cultural studies will be the backdrop for preparing the students to continue in the same language into AP and college courses. ***Students who successfully complete this course will receive three additional points added to their semester averages. Students who have taken Spanish 2 in other schools will need to pass a proficiency test for placement into the appropriate level.***

#### **Advanced Spanish 4**

Grade(s): 10, 11, 12

Two Semester Course

Credit: 1.0

Prerequisite(s): Spanish 3, Placement test required for transfer students

The focus of the Advanced Spanish 4 class is one of continued development of the students' Spanish communication skills both oral and written. The class will prepare the students for taking the College Board's College Level Examination Program (CLEP) test for Spanish. This exam will test their mastery of college-level material in introductory Spanish classes. Passing scores can earn the students up to 11 college credit hours, with passing scores determined by each individual college or university. All Advanced Spanish 4 students will be expected to take the CLEP test in the spring. The CLEP test is administered through Tyler Junior College and requires a fee for administration, a fee for the exam, and a fee for transcript posting. All fees will be paid directly to TJC.

Advanced Spanish 4 will award students an additional 5 points to their passing semester average. This course will count toward the number of advanced classes required for honor graduates and summa cum laude designation.

#### **Advanced Spanish 5**

Grade(s): 10, 11, 12

Two Semester Course Credit: 1.0

Prerequisite(s): Spanish 4, Placement test required for transfer students

Spanish 5 is an advanced class that is conducted primarily in the target language. Emphasis is on reading authentic literature and contributing to class discussions in Spanish. The students will review and strive to master the grammar and vocabulary from the lower levels to become more fluent Spanish speakers.

# **HUMANITIES DEPARTMENT**

It is the philosophy of the Brook Hill Humanities Department to teach an integrated curriculum of history and English. We do this because we believe that students gain a better understanding of the world around them when they view literature through the eyes of history and history through the eyes of literature.

In short, Humanities is the intensive study of the great writings, people, events, works and ideas that have formed and reformed civilization as we know it. It is not two courses taught by one teacher. Rather, it is one course in which a teacher teaches the normative works of our culture within their historical settings. This helps the student understand how the works and the people who wrote them were influenced by their times. It also reveals the universal nature of the great works, which are classics, precisely because they somehow speak to all people at all times. Through such historical/literary integration, students are grounded in a view of the world that enhances and illuminates their more specialized studies of math, science, art, and foreign languages. The Middle School courses cover the history, writings, people, events, etc. of the ancient world (grade 6), Texas (grade 7), and the United States (grade 8), while the Upper School courses cover the western world (grades 9 and 10) and the United States (grade 11). Each of these courses includes a history text, which gives the historical flow of the periods under study.

Not only does such a course of learning help students integrate knowledge, it also enables them to refine their reading/writing and speaking/listening skills under the careful attention and evaluation of their teachers. In short, a major emphasis of these courses is to help the students grow in the strategic skills of communication – reading, writing, speaking and listening – which will enable them to move into any arena of life as confident, articulate, truthful, and persuasive individuals.

Grade 12 courses are not taught from this integrated humanities approach. Students will study the literary genres (comedy, tragedy, epic, and lyric) in English 12, and government and economics in their senior social sciences courses.

## **Humanities 9: Western Civilization 1**

Grade: 9

Two Semester Course

Credit: 2.0

This year's study is the foundation of a two-year course leading students through the history and significant literature of mankind from ancient to modern times. The course opens with a study of what we know of the beginnings of man and recorded history and closes with the early Renaissance. Also emphasized is the establishment and development of the nation of Israel as recorded in the Old Testament and an examination of the life of Christ as recorded in the Gospel of Mark. Examples of the great works read include: *Genesis*, *Exodus*, *The Epic of Gilgamesh*, *The Odyssey*, *The Aeneid*, and *Beowulf*.

### Humanities 9 (PR): Western Civilization 1

Grade: 9

Two Semester Course

Credit: 2.0

This year's study is the foundation of a two-year course leading students through the history and significant literature of mankind from ancient to modern times. The course opens with a study of what we know of the beginnings of man and recorded history and closes with the early Renaissance. Also emphasized is the establishment and development of the nation of Israel as recorded in the Old Testament and an examination of the life of Christ as recorded in the Gospel of Mark. Examples of the great works read include: *Genesis*, *Exodus*, *The Epic of Gilgamesh*, *The Odyssey*, *The Oresteia*, *The Aeneid* and *Beowulf*.

As a Pre-AP course, Humanities 9 (PR) will prepare students to take AP English courses in 11th and 12th grades by requiring deeper probing of texts (often more difficult than Humanities 9), more analytical and in-depth tests and writing assignments, and sample AP exercises (multiple choice and free-response essays). In addition, student in this course should: be task-oriented and able to set priorities; read ALL assignments, as well as suggested books; have a strong and growing base of literary and grammatical conventions; and expect longer reading assignments. ***Students who successfully complete this course will receive three additional points added to their semester averages.***

### Humanities 10: Western Civilization 2

Grade(s): 10

Two Semester Course

Credit: 2.0

This year's study continues a two-year course which leads students through the history and significant literature of mankind in an interdisciplinary fashion. Sophomore studies focus on the Renaissance through to the present.

Because of the formative role played by Christianity during this early part of this era (also known as Christendom), our studies will include the New Testament and early Church writings. The discussion of cultural changes, as well as tracing the great people, events, and ideas, during Christendom, the Renaissance, the Reformation, the Enlightenment and the Modern Era will aid students in understanding the world of today. Readings for the course include not only works of fiction, but also poetry, historical and critical essays, political documents and philosophical writings. Key works read include *The Divine Comedy*, *Macbeth*, *Paradise Lost*, and *Night*.

### Humanities 10 (PR): Western Civilization 2

Grade: 10

Two Semester Course

Credit: 2.0

This year's study continues a two-year course which leads students through the history and significant literature of mankind in an interdisciplinary fashion. Sophomore studies focus on the Renaissance through to the present.

Because of the formative role played by Christianity during this early part of this era (also known as Christendom), our studies will include the New Testament and early Church writings. The discussion of cultural changes, as well as tracing the great people, events, and ideas, during Christendom, the



Renaissance, the Reformation, the Enlightenment and the Modern Era will aid students in understanding the world of today. Readings for the course include not only works of fiction, but also poetry, historical and critical essays, political documents and philosophical writings. Key works read include *The Divine Comedy*, *Macbeth*, *Paradise Lost*, and *Night*.

As a Pre-AP course, Humanities 10 (PR) will prepare students to take AP English courses in 11th and 12th grades by requiring deeper probing of texts (often more difficult than Humanities 10), more analytical and in-depth tests and writing assignments, and sample AP exercises (multiple choice and free-response essays). In addition, student in this course should: be task-oriented and able to set priorities; read ALL assignments, as well as suggested books; have a strong and growing base of literary and grammatical conventions; and expect longer reading assignments. ***Students who successfully complete this course will receive three additional points added to their semester averages.***

### **Humanities 11: United States History and Literature**

Grade: 11

Two Semester Course

Credit: 2.0

Humanities 11 is a multi-faceted course, offering the student an opportunity to improve critical reading and writing skills. There is considerable emphasis on the college-style essay focusing on critical reading and analysis. Eleventh-grade studies in the humanities span from the early colonization of America to the current day. Students will trace the people, events, and ideas that have shaped America, and they will explore how America has played a part in the history of the world. Readings for the course include not only works of fiction, but also poetry, historical and critical essays, political documents and philosophical writings. Examples of the works read in the class include *The Scarlett Letter*, *The Great Gatsby*, and *The Adventures of Huckleberry Finn*.

### **Humanities 11 (AP): AP English Language and Composition and United States History (AD)**

Grade: 11

Two Semester Course

Credit: 2.0

Humanities 11 (AP) is a multi-faceted course, offering the student an opportunity to become proficient in the areas of critical reading, critical analysis, rhetorical analysis and historical analysis. There is considerable emphasis on the college-style essay focusing on critical reading and analysis. Eleventh-grade studies in the humanities span from the early colonization of America to the current day. Students will trace the people, events, and ideas that have shaped America, and they will explore how America has played a part in the history of the world. Readings for the course include not only works of fiction, but also poetry, historical and critical essays, political documents and philosophical writings. Examples of the works read in the class include *The Scarlett Letter*, *The Great Gatsby*, and *The Adventures of Huckleberry Finn*.

Higher academic expectations in this course should prepare the students for the AP English Language and Composition exam. Students are expected to exhibit a high degree of self-motivation and self-discipline in order to meet the demands of such a curriculum. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

## English 12: Composition and Literary Genres

Grade: 12

Two Semester Course

Credit: 1.0

English 12 is a genre study through the reading of great works of literature, both ancient and contemporary. Exemplars of the epic, lyric, tragic, and comic genres present the noble struggle to found and maintain a community, the splendor and diversity of love, the possible insight gained through suffering, and the hope that sustains a broken world. Through careful reading and analytical writing, seminar discussion, and research, students will develop their skills in critical reading and writing in preparation for college. More importantly, it is my hope that students will gain a greater appreciation for and insight into what it means to be human. English 12 is a college prep course. With that in mind, it is geared toward preparing students to read, think, discuss, and write at a college level. The work load and expectation is greater than at a typical school, though it is not at the level of AP/Dual Credit English 12.

## English 12 (AP/DC): Literature and Composition

Grade: 12

Two Semester Course

Credit: 1.0

Prerequisites: Teacher Recommendation, 85 or higher in Humanities 11

AP/Dual Credit English 12 is a genre study through the reading of great works of literature, both ancient and contemporary. Exemplars of the epic, lyric, tragic, and comic genres present the noble struggle to found and maintain a community, the splendor and diversity of love, the possible insight gained through suffering, and the hope that sustains a broken world. Through careful reading and analytical writing, seminar discussion, and research, students will develop their skills in critical reading and writing in preparation for college. More importantly, it is my hope that students will gain a greater appreciation for and insight into what it means to be human.

AP/Dual Credit English 12 and English 12 are very similar courses. The primary difference is that AP/Dual Credit English 12 is taught as a college course. The students in this course are expected to read, think, discuss, and write at a college level. They will be assessed by a higher standard than will students in English 12. Students who wish to take the English AP exam will be assigned supplemental work. ***Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete this course will receive five additional points added to their semester averages.***

## Humanities for English Language Learners 1 (ELL 1)

Grade(s): 9, 10

Two Semester Course

Credit: 2.0

ELL 1 is a language support class for students who are beginning to acquire English skills in writing, reading, vocabulary, and speaking. The course integrates a study of World History from early man to the Roman Era with corresponding selections from literature that parallels each era. The literature includes Biblical narrative selections from the Old Testament, *Gilgamesh*, and tales from Egyptian and Greek mythology on a level of reading appropriate for beginners. The students also learn basic research skills and present oral presentations to the class.

## **Humanities for English Language Learners 2 (ELL 2)**

Grade(s): 9, 10

Two Semester Course

Credit: 2.0

ELL 2 is a language support class for students who have intermediate English skills in writing, reading, vocabulary, and speaking. The course integrates a study of World History from early Rome to the Renaissance, with corresponding selections from literature that parallels each era. The literature includes Biblical narrative readings from the New Testament, tales from Robin Hood, Arthurian legends, and other literature, and culminates in a study of *Othello* on a level of reading appropriate to the students' skills. The students also learn basic research skills and present oral presentations to the class. Students may only take ELL 2 in grades 8, 9, and 10 to earn credit for both World History and English. (Freshmen successfully completing ELL 2 will go to regular sophomore Humanities; sophomores will go to regular junior Humanities).

## **United States Government (DC)**

Grade: 12

One Semester Course

Credit: 0.5

The government course includes a brief review of colonial American history with emphasis on the United States Constitution, detailed analysis of the Bill of Rights, study of each branch of government and its function, political parties and campaigns, and current issues from a Christian perspective.

***Students taking this course for dual credit must meet the college's guidelines.***

## **Economics (DC)**

Grade: 12

One Semester Course

Credit: 0.5

Economics is a study of macroeconomics with emphasis on the functions of a free market economy, supply and demand, the global economy, money and banking, and monetary and fiscal policy. ***Students taking this course for dual credit must meet the college's guidelines.***

## **Advanced United States History (DC)**

Grade: 12

Two Semester Course

Credit: 1.0

This course is intended to provide the student with an overview of American history and a deeper understanding of and appreciation for significant events in our history. Some independent study with classroom discussion will be required as well as a major project each semester. ***Students taking this course for dual credit must meet the college's guidelines.***

## **Speech**

Grade(s): 10, 11, 12

One Semester Course

Credit 0.5

The goal of this course is to help students better organize and articulate their ideas in various public speaking situations. Students will gain poise and self-confidence as they practice the principles of successful interpersonal and public communication. Students will develop skill in writing and delivering effective speeches. Students will gain experience in preparing informative, persuasive speeches, demonstration and impromptu speeches, as well as effective interview techniques. The semester will culminate in a mock-interview exercise and a self-evaluation.

# **MATHEMATICS DEPARTMENT**

Mathematics is more than the study of numbers, patterns and shapes. Collectively, it is a language which God uses to describe the physical universe to mankind. It is a creative, dynamic system which man can use to model and understand his environment. It reveals glimpses of the nature of God (His orderliness, trustworthiness, omniscience and omnipotence), while developing important character qualities such as patience, perseverance, resourcefulness, alertness and creativity.

Through its study, students cultivate problem-solving skills, analytical thinking, attention to details and logic. It encourages the development of sound reasoning techniques and rewards consistent work habits. The Brook Hill School's mathematics program is designed to stimulate a student's intellectual curiosity and give him/her an exposure to the technology of today's mathematics.

## **Algebra 1**

Grade: 9

Two Semester Course

Credit: 1.0

Algebra I is an important subject because it is the foundation for all upper-level mathematics at both high school and college levels. It is our goal to help the students acquire the skills that they will need to be successful in these courses and to become excellent problem solvers.

The curriculum will include the study of integers and rational numbers, equations, inequalities, graphs and linear equations, systems of equations, absolute value, exponents and polynomials, polynomials and factoring, the Pythagorean Theorem and radicals, relations and functions, and quadratic equations.

## **Geometry**

Grade(s): 9, 10

Two Semester Course

Credit: 1.0

Prerequisite: Algebra 1

This course develops a Euclidean system of Geometry through the use of postulates, definitions and theorems. A study of Geometry will enhance the student's ability to solve problems creatively, reason deductively and logically, and visualize spatial relationships. Topics covered include (but are not limited to) inductive and deductive reasoning, points, lines, planes, angles and angle relationships, deduction and formal proof, parallel lines and planes, triangles, parallelograms and quadrilaterals, similar polygons, circles, area and volume of solids, constructions and coordinate geometry. Right triangle trigonometry will be introduced. They will also be introduced to transformational and analytical geometry. There is an emphasis on formal proof throughout the first semester. Projects may be required.

**Geometry (PR)**

Grade(s): 9, 10

Two Semester Course

Credit: 1.0

Prerequisite: Algebra 1

This course develops a Euclidean system of Geometry through the use of postulates, definitions and theorems. A study of Geometry will enhance the student's ability to solve problems creatively, reason deductively and logically, and visualize spatial relationships. Topics covered include (but are not limited to) inductive and deductive reasoning, points, lines, planes, angles and angle relationships, deduction and formal proof, parallel lines and planes, triangles, parallelograms and quadrilaterals, similar polygons, circles, area and volume of solids, constructions and coordinate geometry. Right triangle trigonometry will be introduced. They will also be introduced to transformational and analytical geometry. There is an emphasis on formal proof throughout the first semester. Projects may be required. ***Students who successfully complete this course will receive three additional points added to their semester averages.***

**Algebra 2**

Grade(s): 10, 11

Two Semester Course

Credit: 1.0

Prerequisite: Algebra 1

Included with a brief review of Algebra I skills will be an introduction of the concepts of functions, elementary analysis, and quadratic equations. Related concepts of domain, range, set notation, interval notation, and inverse functions will be mastered. Students will be expected to become proficient in recognizing, knowing (and sometimes proving) the various analytical and graphical properties of various function families. Mathematical families include linear, quadratic, exponential, rational, irrational, and higher degree polynomial functions, along with conic sections. Wherever possible, applications will be stressed.

Additional topics will include complex number theory, sequences and series, (and probability if time permits). Trigonometric concepts from Pre AP Geometry will be reviewed, and students will finish out their study of trigonometry with developing and proving identities, and solving trigonometric equations. Heavy use of symbolic manipulations and transformations will be encouraged as a support to the future physics student.

**Algebra 2 (PR)**

Grade(s): 10, 11

Two Semester Course

Credit: 1.0

Prerequisite: Algebra I

Included with a brief review of Algebra I skills will be an introduction of the concepts of functions, elementary analysis, and quadratic equations. Related concepts of domain, range, set notation, interval notation, and inverse functions will be mastered. Students will be expected to become proficient in recognizing, knowing (and sometimes proving) the various analytical and graphical properties of various function families. Mathematical families include linear, quadratic, exponential, rational, irrational, and higher degree polynomial functions, along with conic sections. Wherever possible, applications will be stressed.

Additional topics will include complex number theory, sequences and series, (and probability if time permits). Trigonometric concepts from Pre AP Geometry will be reviewed, and students will finish out their study of trigonometry with developing and proving identities, and solving trigonometric equations. Heavy use of symbolic manipulations and transformations will be encouraged as a support to the future physics student. ***Students who successfully complete this course will receive three additional points added to their semester averages.***

### **Business Math / Statistics (DC)**

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisite: Algebra 2

Business Math is offered in the fall or spring semester and includes the study of linear, quadratic, exponential and logarithmic functions; matrices; topics in finance including interest rates, annuities, loans and amortization; and an introduction into probability and statistics.

Statistics is offered in the spring semester and is an introductory course which focuses on the collection, tabulation, and analysis of data, normal and binomial distributions, linear regression and correlation, testing of hypothesis and utilization of computers in statistical application. ***Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete this course will receive three additional points added to their semester averages.***

### **College Algebra Full Year**

Grade(s): 11, 12

Two Semester Course    Credit: 1.0

Prerequisite: Algebra 2

College Algebra includes the study of quadratics; polynomial, rational, logarithmic, and exponential functions; systems of equations; progressions; sequences and series; and matrices and determinants. The course is taught for the full year.

### **College Algebra / College Trigonometry (DC)**

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisites: Algebra 2, must pass the TSI or be exempt

College Algebra is offered at an advanced pace during the fall semester and includes the study of quadratics; polynomial, rational, logarithmic, and exponential functions; systems of equations; progressions; sequences and series; and matrices and determinants. College Trigonometry is offered in the spring semester and focuses primarily on trigonometric identities, analytic geometry and analytic trigonometry, as well as rational, logarithmic, and exponential functions. ***Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete this course will receive five additional points added to their semester averages.***

**Calculus AB (AP / DC)**

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisite(s): College Algebra / College Trigonometry

Topics include those presented in traditional first and second semester college courses. An intuitive introduction to the methods of calculus is followed by several problem-solving applications. The content includes (but is not limited to) topics covered on the Advanced Placement (Calculus AB) Examination. Whenever possible, real life applications are stressed. Graphing calculators will be used as an aid to computation and analysis. Personal computers may be used to demonstrate limits and numerical methods for evaluation, derivatives and definite integrals. At the beginning of the year students are encouraged to start their preparation for the Advanced Placement exam. Enrollment based on teacher approval. ***Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete this course will receive five additional points added to their semester averages.***

**Calculus BC (AP)**

Grade: 12

Two Semester Course

Credit: 1.0

Prerequisite: Calculus AB (AP)

Topics include those presented in traditional second and third semester college courses. An intuitive introduction to the methods of calculus is followed by several problem-solving applications. The content includes (but is not limited to) topics covered on the Advanced Placement (Calculus BC) Examination. Whenever possible, real life applications are stressed. Graphing calculators will be used as an aid to computation and analysis. Personal computers may be used to demonstrate limits and numerical methods for evaluation, derivatives and definite integrals. At the beginning of the year students are encouraged to start their preparation for the Advanced Placement exam. Enrollment based on teacher approval. ***Students who successfully complete this course will receive five additional points added to their semester averages.***



# **PHYSICAL EDUCATION DEPARTMENT**

Physical Education is the study of the total person: physical, mental, emotional, and social as well as spiritual. Through its study, the student has an increased awareness of how the body functions and develops. They learn how to deal with stress through competition. Exposure to sports and lifetime activities enables the students to better select those activities which will later enhance their lives.

In II Corinthians 6:16, Paul writes that we are the “temple of the Living God.” It is the responsibility of all people to cherish and maintain their temple. The study of physical education clarifies the needs of our physical bodies and how we can best develop, understand, and care for this physical vessel which is God’s temple.

## **Physical Education / Athletics**

The Physical Education department offers both team sports and individual activities. The objective is to equip students with a number of skills they can carry over into a lifetime of fitness. PE Credit may also be earned through team management.

### **US Athletics:**

#### **Fall**

- Football (Boys)
- Volleyball (Girls)
- Cross Country
- Cheerleading (Girls)
- Drill Team

#### **Winter**

- Basketball
- Soccer
- Cheerleading (Girls)

#### **Spring**

- Baseball (Boys)
- Softball (Girls)
- Golf
- Track
- Tennis
- Cheerleading (Girls)

\*Athletic Trainer/Manager for any sport

Students will participate in the *Bigger, Faster, Stronger* program during off-season and when not participating in competition athletics.

# **SCIENCE DEPARTMENT**

Science is the study of the natural world and the things that affect it. Our department stresses critical thinking, logical reasoning, and problem solving. The science labs are designed to help the student develop a firm foundation in observation, analysis, and conclusions. We strive to prepare our students for success in rigorous college science programs. All science faculty adhere to and instruct in congruence with a biblical world view. Science illuminates the creative majesty of God. As one studies science, he becomes more aware of the magnificence of the creation and the Creator.

## **Biology 1**

Grade: 9

Two Semester Course

Credit: 1.0

Through a combination of laboratory experiments, class lectures, and field explorations, this course will give the student an in-depth look at the biological world that surrounds them. The experiments help with understanding and appreciating biology as well as learning new lab procedures and safety. The lab and field assignments help to strengthen and connect concepts learned in the classroom.

## **Biology 1 (PR)**

Grade: 9

Two Semester Course

Credit: 1.0

Through a combination of laboratory experiments, class lectures, and field explorations, this course will give the student an in-depth look at the biological world that surrounds them. The experiments help with understanding and appreciating biology as well as learning new lab procedures and safety. The lab and field assignments help to strengthen and connect concepts learned in the classroom. ***Students who successfully complete this course will receive three additional points added to their semester averages.***

## **Chemistry 1**

Grade: 10

Two Semester Course

Credit: 1.0

Prerequisite: Algebra 1

This course covers the basic chemistry concepts and vocabulary as well as general thinking skills and laboratory techniques that will provide the students with a solid foundation and prepare them for college science courses. The approach, involves primarily an exploration of the mathematical relationships involved in chemical change. Laboratory work is stressed, and focuses on careful analysis of data and the resulting mathematical relationships. It also provides “hands-on” experience with chemistry and shows how chemistry concepts apply to today’s society.

### **Chemistry 1 (PR)**

Grade: 10

Two Semester Course Credit: 1.0

Prerequisite: Algebra I

This course covers the basic chemistry concepts and vocabulary as well as general thinking skills and laboratory techniques that will provide the students with a solid foundation and prepare them for college science courses. The approach, involves primarily an exploration of the mathematical relationships involved in chemical change. Laboratory work is stressed, and focuses on careful analysis of data and the resulting mathematical relationships. It also provides “hands-on” experience with chemistry and shows how chemistry concepts apply to today’s society. ***Students who successfully complete this course will receive three additional points added to their semester averages.***

### **Physics 1**

Grade(s): 11, 12

Two Semester Course Credit: 1.0

Prerequisites: Biology, Chemistry

Physics provides the students with an introduction to the study of physics. This course explores physics primarily from a conceptual basis but includes some mathematical applications. Topics of study include kinematics, dynamics, simple machines, work, heat, electricity, magnetism, light, optics, and modern physics. Laboratory experiments are an integral part of this course. A calculator is required.

### **Earth and Space Science**

Grade(s): 11, 12

Two Semester Course Credit: 1.0

Prerequisites: Biology, Chemistry

Earth and Space Science combines earth science, ocean science, atmospheric science, and space science in a single course. In one year, students learn the basics and special topics of geology, oceanography, meteorology, and planetary astronomy in a course that builds upon the knowledge they learned in their earlier high school science courses of biology and chemistry.

### **Anatomy & Physiology (AD)**

Grade(s): 11, 12

Two Semester Course Credit: 1.0

Prerequisites: Biology, Chemistry

This course surveys human anatomy and physiology. The purpose of the course is to provide an understanding of body structure and function in order to predict the responses of the body in health and disease. The goals of the course are to organize the information and provide a conceptual framework to facilitate student comprehension and mastery of anatomical structured physiological function. This course is a foundation course for specialization in allied health disciplines. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

### **Biology (DC)**

Grade(s): 11, 12

Two Semester Course                      Credit: 1.0

Prerequisites: Biology, Chemistry

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. ***Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete this course will receive three additional points added to their semester averages.***

### **Biology (AP)**

Grade(s): 11, 12

Two Semester Course                      Credit: 1.0

Prerequisites: Biology, Chemistry

This second year Biology course is designed for the student who intends to study a science related field in college. It is equivalent to a college freshman course in general biology. The course features a biochemical approach to the study of life functions and includes an intense laboratory program which stresses graphing and analysis of data. The pace and depth of the course is designed to prepare the student for College Board Advanced Placement testing in the spring. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

### **Chemistry (AP)**

Grade(s): 11, 12

Two Semester Course                      Credit: 1.0

Prerequisites: Biology, Chemistry; (PR) Chemistry preferred

This second year Chemistry course is designed for the college-bound student who intends to study an engineering related field and not related to the medical sciences. College level labs, suggested by the College Board, are presented on a weekly basis. The pace and depth of the course is designed to prepare the student for College Board Advanced Placement testing in the spring. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

### **Environmental Science (AP)**

Grade(s): 11, 12

Two Semester Course                      Credit: 1.0

Prerequisites: Biology, Chemistry

The purpose of this course is to explore ecological principles, biotic interrelationships in aquatic and terrestrial communities and environmental issues that have national and global effects. The goals of the course are to organize the information and provide a conceptual framework to facilitate student comprehension and mastery of ecological principles. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

### Physics 1 (AP)

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisites: Biology, Chemistry, Algebra II

The Physics 1 (AP) course is an introductory college-level course that explores a broad range of principles including kinematics, forces, momentum, energy, electricity, and waves. Special emphasis is placed on scientific thinking and communication, in addition to problem solving skills. Students receive experience in a laboratory setting closely analogous to a university laboratory and are challenged to design and execute experiments to verify the concepts learned in class. The pace and depth of the course is designed to prepare the student for College Board Advanced Placement testing in the spring.

***Students who successfully complete this course will receive five additional points added to their semester averages.***

### Physics 2 (AP)

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisites: Physics 1 (AP)

The Physics 2 (AP) course is a college-level course that build on Physics 1 by exploring a broad range of principles including fluid mechanics, electricity, magnetism, optics, atomic physics, and nuclear physics. Special emphasis is placed on scientific thinking and communication, in addition to problem solving skills. Students receive experience in a laboratory setting closely analogous to a university laboratory and are challenged to design and execute experiments to verify the concepts learned in class. The pace and depth of the course is designed to prepare the student for College Board Advanced Placement testing in the spring. ***Students who successfully complete this course will receive five additional points added to their semester averages.***

### Forensic Science

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Forensic Science covers a wide range of topics and practices of science as they apply to civil and criminal law enforcement and the criminal justice system. In this course students will use concepts from anatomy, entomology, chemistry, physical sciences and biology, as they apply to processing a crime scene and interpreting evidence to facilitate the activities of criminal and civil law enforcement agencies.

## **ELECTIVES**

### **BH Business Experience**

Grade(s): 11,12

One Semester Course

Credit: .0.5

Prerequisite: Business Principles

A semester long course where students can apply learning gained from the Business Principles course through a hands-on work experience in The Guard Shop and/or The Cabin Coffee House. Students will perform regular employee duties during the class time they are assigned to work. Each student will report to the manager on duty as well as the course instructor. Students will be responsible for: maintaining good standing with store manager, submitting assignments, and attending scheduled meetings with course instructor (course requirements listed in syllabus). Students will earn elective credit in lieu of wages.

### **Business Law**

Grade(s): 10,11,12

One Semester Course

Credit: .0.5

Prerequisite: Business Principles

This semester long course presents an overview of our nation's legal system such as: legal principles of business, commercial litigation, nonprofit law, dispute resolution, contract law; bankruptcy law; property law, negotiable instruments, business entities (corporations, partnership, sole proprietorship), and more. This course introduces students to the multifaceted legal system behind business organizations and challenges students to analyze business decisions from a legal perspective.

### **Business Principles**

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

One Semester Course

Credit: .0.5

This college level course is designed for students interested in studying various fields of business including: management, marketing, finance, accounting, ethics, entrepreneurship, and others. In this course, students will be introduced to the fundamentals of business operations that are essential to understanding how businesses function. While some instructional delivery will include lecture, assessments, and guest speakers, the method emphasized in this course is in-depth/hands-on/project-based-learning.

### **Entrepreneurship 1**

Grade(s): 11, 12

One Semester Course

Credit: 0.5

Prerequisite: Business Principles

This is a semester course which covers the first half of a lean startup-based curriculum. During the semester, students will work in teams to develop their first business model canvas (BMC) for their own real-life product or service! Students will engage in customer research, craft value propositions, begin to build a robust financial model, and much more! Throughout the semester, students will be guided through the processes of developing hypotheses, testing those hypotheses, adapting, and continually

learning and improving their business concept. Through this classroom experience, students will make mistakes, take risks, and learn to pivot based on market needs.

## **Entrepreneurship 2**

Grade(s): 11, 12

One Semester Course                      Credit: 0.5

Prerequisite: Entrepreneurship 1

This is a semester course which covers the second half of a lean startup-based curriculum. During the semester, students will work in teams to further develop the BMC created in Entrepreneurship 1. Students test their assumptions through the creation of a Minimal Viable Product, or MVP. Teams will rehearse their pitch, anticipate and practice impromptu Q&A sessions from family, friends, and mentors, and finalize the research of their product or service. The goal of this curriculum is to prepare students for a shark-tank style Final Pitch.

## **Fabrication**

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

Two Semester Course                      Credit: 1.0

Fabrication is a course designed and developed around student-centered inquiry. The course will consist of assigned projects intended to introduce students to a variety of tools, technologies, and materials in order to spark creativity and foster confidence in their gifts, talents and abilities. The projects will require students to think critically and work collaboratively in order to solve problems and reach goals. Some of the technologies available include 3D printers, a laser cutter/engraver, and a vinyl cutter. The tools will include standard hand tools as well as power tools like a drill press, band saw, and miter saw. The materials we will work with include wood, plastic, and sheet metal. Students will also be able to design and build electrical circuits and be introduced to basic computer programming. The overarching purpose of the course is to encourage students to explore their creativity and ability to design and build.

## **International Business**

Grade(s): 10,11,12

One Semester Course                      Credit: 0.5

Prerequisite: Business Principles

This semester long course examines the world of business through a global lens. Students will study issues surrounding foreign business such as: business customs and cultural dynamics, foreign trade practices, economic developments, political influences on foreign business, and the impact multinational corporations (MNCs) have on our global economy.

## **Marketing**

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

One Semester Course                      Credit: 0.5

This college level course is designed for students interested in studying how businesses, people and governments promote and sell their products and services. In this course, students will be introduced to the marketing mix functions, and process with an emphasis on identifying ethical marketing as well as

its abuses. Students will be challenged to evaluate the various complexities of marketing through the historical and current behavior of non-profit and for-profit businesses.

### **Philosophy**

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

In this class, students will carefully read and engage Plato's *Republic* and Aristotle's *Nicomachean Ethics*, explore some of the methods and central questions of philosophy, and realize the importance of Plato and Aristotle as cornerstones of the western intellectual tradition. Emphasis will be placed on evaluation arguments while simultaneously learning to give a charitable and close reading to the texts.

### **Psychology (AP)**

Grade(s): 10, 11, 12

Two Semester Course

Credit 1.0

This course introduces students to the scientific study of behavior and mental processes in humans. Topics covered include research methods, the biological basis of behavior, psychological disorders and their treatment, sensation and perception, states of consciousness, memory and thinking, learning and intelligence, motivation and emotion, personality, life-span development, and social psychology.

### **Robotics**

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

Two Semester Course

Credit: 1.0

This course is designed to develop science, technology, engineering, and math skills through a robotics competition designed and administrated by the FIRST (For Inspiration and Recognition of Science and Technology) organization. In the process of preparing for the competition, students learn basic robot design, construction, and programming through a comprehensive curriculum provided by FIRST.

### **Senior Seminar - Fall/Senior Transitions - Spring**

Grade: 12

Two Semester Course

Credit: 0.5

Senior Seminar provides seniors with topical discussions related to specific aspects of the college admission process. The Academic Counselors and special guests from college admissions will discuss issues related to college and financial aid planning. Seniors will also have one-on-one meetings with the Academic Counselors to plan and review their college admission progress.

To assist seniors as they make the transition from high school to college, The Brook Hill School requires seniors to take a one semester "Senior Transitions" class. This class both identifies common struggles for college freshmen and provides resources that prepare seniors to overcome those obstacles. Topics include spiritual disciplines, nutrition, exercise, personal finance, and college social life.



**Sports Management**

Grade(s): 10,11,12

Two Semester Course    Credit: 1.0

Prerequisite: Business Principles

A year long course that delivers an overview of how business principles apply to each level of organizational sports from pee wee to pro. These include: ethics, marketing, law, finance, management, recruitment, and more, all under the sports umbrella. Students will be introduced to a variety of career opportunities and responsibilities at all levels of the sports industry.

**Test Prep**

Grade(s): 10, 11

One Semester Course

Credit: 0.5

The Test Prep Class is designed to give the student information he/she needs to do their very best on the high school exams as well as standardized tests. In addition to preparing for specific question types on both SAT and ACT this course will give the student practice with time management, test anxiety, understanding how the tests are scored, and test-taking strategies. Weekly assignments will encourage students to work with their fellow classmates and their instructor to maximize their performance on all aspects of the tests.