# E BROOK SCHOOL HIT Education • Potential • Character 1997

# 2023-2024 UPPER SCHOOL COURSE REGISTRATION GUIDE

Dear Students and Parents,

As a school community, we at The Brook Hill School are deeply committed to our mission of providing excellence in college preparatory education, while also affirming the unique gifts and challenging the potential of each of our students. We believe our students are capable of great things, and we strive to support them as they grow and develop into thoughtful, engaged members of society. In keeping with our mission, we also seek to encourage our students to honor God through Christ-like character, embodying values such as compassion, integrity, and perseverance in all that they do.

Our sincere hope is that this course selection guide will help you to identify the classes that will both inspire and challenge you, as you work towards achieving your academic goals and fulfilling your potential. As you use this guide to plan for the future, we hope that you will be inspired to dream big and work hard towards achieving your goals. Remember, we are here to support you every step of the way, and we look forward to celebrating your successes with you in the years to come.

Should you have any questions about the course selection process or registration, we're always here to help. Don't hesitate to reach out to our Academic Office at 903-894-5000, or feel free to send us an email at abouwer@brookhill.org or jsturdivant@brookhill.org. We're committed to supporting you every step of the way.

Sincerely,

Ashley Bouwer and Jaime Sturdivant Academic College Counselors The Brook Hill School

COMMIT YOUR PLANS 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 2024/2025**

#### **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 <sup>1</sup>
SCIENCE	4 credits <sup>2</sup>
WORLD LANGUAGE	2 credits <sup>3</sup>
FINE ARTS	1 credit
BIBLE	2 credits
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.

#### **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 <sup>1</sup>
SCIENCE	4 credits <sup>2</sup>
WORLD LANGUAGE	2 credits <sup>3</sup>
FINE ARTS	1 credit
BIBLE	2 credits
PHYSICAL EDUCATION	1 credit
SPEECH	½ credit
SENIOR SEMINAR	½ credit
ELECTIVES	3 credits

#### TOTAL

#### 26 credits

<sup>1</sup>Must include Algebra I, Geometry, and Algebra II.

<sup>2</sup> Must include Biology, Chemistry, and Physics.

<sup>3</sup>World language credits must be within the same language.

#### **GRADUATION REQUIREMENTS for the class of 2026/2027**

#### **DISTINGUISHED GRADUATION PLAN**

ENGLISH	4 credits
HISTORY	2 credits
U.S. HISTORY	1 credit
AMERICAN GOVERNMENT	½ credit
MACROECONOMICS	½ credit
MATHEMATICS	4 credits <sup>1</sup>
SCIENCE	4 credits <sup>2</sup>
WORLD LANGUAGE	3 credits <sup>3</sup>
FINE ARTS	1 credit
BIBLE	3 credits
PHYSICAL EDUCATION	1 credit
CLASS SEMINAR	½ credit
ELECTIVES	2 ½ credits
TOTAL	27 credits*

#### \*At least four credits must be from the advanced course list.

#### **RECOMMENDED GRADUATION PLAN**

ENGLISH	4 credits
HISTORY	2 credits
U.S. HISTORY	1 credit
AMERICAN GOVERNMENT	½ credit
MACROECONOMICS	½ credit
MATHEMATICS	4 credits <sup>1</sup>
SCIENCE	4 credits <sup>1</sup>
WORLD LANGUAGE	2 credits <sup>3</sup>
FINE ARTS	1 credit
BIBLE	3 credits
PHYSICAL EDUCATION	1 credit
CLASS SEMINAR	½ credit
ELECTIVES	2 ½ credits
TOTAL	26 credits

<sup>1</sup>Must include Algebra I, Geometry, and Algebra II.

<sup>2</sup>Must include Biology, Chemistry, and Physics.

<sup>3</sup>World language credits must be within the same language.

#### **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.

AP Spanish Language 4

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

AP Computer Science Principles AP Computer Science A

Marketing (DC)

Honors Anatomy/Physiology Biology (DC) AP Chemistry AP Environmental Science AP Physics 1 AP Physics 2 AP Calculus AB (DC) AP Calculus BC (DC) AP Precalculus College Algebra (DC) Trigonometry (DC) Business Math (DC) Introduction to Statistics (DC)

Honors Humanities English 10 AP Language (Humanities 11) Honors Humanities U.S. History 11 English 12 (DC) AP English Literature & Composition U.S. History (DC) Government (DC) Economics (DC) AP Macroeconomics

#### **COURSE PLANNING WORKSHEET - Class of 2024+**

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.

- **1** Algebra 1
- 2 Spanish 1

#### 9th grade

- 1 Humanities 9 English
- 2 Humanities 9 History
- 3 Math
- **4** Science
- 5 World Language
- 6 Fine Arts
- 7 PE/Athletics

#### 10th grade

- 1 Humanities 10 English
- **2** Humanities 10 History
- 3 Math
- 4 Science
- 5 World Language\*\*
- 6 Bible 10
- 7 PE/Athletics, Fine Arts, Elective

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

- **1** Humanities 11 English
- 2 Humanities 11 U.S. History
- 3 Math
- **4** Science
- **5** World Language
- 6 Bible 11
- 7 PE/Athletics, Fine Arts, Elective

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

- 1 English 12
- 2 Government / Economics
- 3 Math
- **4** Science
- **5** Bible 12
- 6 Fine Arts, Elective
- **7** PE/Athletics

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

In subjects where Honors or AP are offered, students are recommended for these courses based on previous year's grade, PSAT score, and teacher referral.

#### **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 following year. Once cleared through both offices, the Academic Office will process the course request form and create a class schedule. 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 following year. Once cleared through both offices, the Academic Office will receive the student's completed file (including final grades from the 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 may be required; therefore, required testing is completed 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 boarding students will be contacted by their counselor to register for classes.

> New Student Registration Days July 19, 2023 July 26, 2023 August 8-9, 2023

#### **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.

#### **COURSE AVAILABILITY**

The preliminary choice of courses during the registration process helps to establish the widest range of individual choice. However, it is 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 students' requests 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 decisionmaking 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 in Veracross. 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.

<u>ALL</u> students must have 5 academic courses to be considered full-time students.

Seniors cannot replace a 5th course after the eight-day drop deadline.

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.

#### **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 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."

"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

"If you are going to do something, do it well." Jean Jordan, Dean of Admission Emory University

"Take ownership of this process and be sincere. Too often, students are pressured by those around them to

#### 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 for graduation and upcoming college admissions. But you will also want to take courses that will stimulate you and that you will enjoy. Create a course plan that will express your interests and demonstrate your work ethic and academic ability as early as possible.

<u>BOTTOM LINE</u>: Colleges challenged to take progressively harder courses or participate 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)

#### **ADVANCED PLACEMENT AND DUAL CREDIT**

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

#### ADVANCED PLACEMENT (AP)

The Advanced Placement (AP) program offers students an unparalleled opportunity to develop critical thinking skills and acquire content mastery beyond mere facts and figures. With rigorous course material, engaging classroom discussions, and demanding assignments, AP courses prepare students to meet the academic expectations of higher education institutions.

Participation in AP courses also offers the additional benefits of potentially earning college credit and distinguishing oneself in the college admission process. However, it is important to note that college credit is not automatically awarded upon successful completion of an AP course. To receive AP credit on a student transcript and a qualifying grade bump, students must take the AP Exam at the end of the course. Students may also qualify for college credit based on their outcome of this exam. Ultimately, college credit based on the outcome of the AP exam depends on the policies of individual colleges and universities.

To determine a specific institution's AP credit policies, students are advised to obtain the college's AP policy in writing, which can typically be found on the institution's website or through the College Board's AP Credit Policy Info search tool.

As AP courses are taught at a collegiate level, so students should make well-informed decisions regarding their enrollment. Students are encouraged to consult course descriptions for further information on placement criteria for AP courses.

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

Art: 2-D Art and Design Art: 3-D Art and Design Art: Drawing Calculus AB Calculus BC Chemistry Computer Science A English Language and Composition English Literature and Composition Environmental Science European History Macroeconomics Physics 1 Physics 2 Precalculus Spanish Language 4

#### **DUAL CREDIT (DC)**

Dual Credit courses allow students 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. 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 or she 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 takes (TJC or CCU).

#### Should I pursue credit through AP or DC?

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 credits 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 <u>each semester</u>. 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

#### High School Course

**Dual Credit Course** 

College Algebra/Trigonometry Business Math/Statistics AP/DC Calculus AB TJC Math 1314/1316 (6) Fall/Spring TJC Math 1324/1342 (6) Fall/Spring TJC Math 2413 (4) Fall Total Available: 16

Government Economics DC US History DC English 12 DC Biology Marketing AP/DC Environmental Science CCU POL-207 (3) Fall /Spring CCU ECO-215 (3) Fall/Spring CCU HIS- 205/206 (6) Fall/Spring CCU ENG 102/104 (6) Fall/Spring CCU BIO 101/111 (4) Spring CCU MKT 202 (3) Fall/Spring CCU PHY 105/106 (4) Spring Total Available: 29

#### College Requirements:

- Apply for admission and test at TJC.
- Take scores to the TJC Dual Credit Office (TSI pre-assessment 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.

#### Tyler Junior College:

http://www.tjc.edu/info/2004237/how\_to\_apply/147/dual\_creditearly\_admission\_student

#### Tyler Junior College

Contact Information: **Stephanie Mayo**: smay@tjc.edu **Business Office**: 903-510-2672

Dual Credit Email: dualcredit@tjc.edu Dual Credit Office: 903-510-2519/903-510-2716

Dual Credit Office Location: 1421 S. Baxter-Wesley Building<br/>Testing Center Location: Rogers Student Center 2nd FloorFax: 903-510-2161<br/>testingservice@tjc.eduhttps://www.tjc.edu/info/20031/testing\_services/116/tsi\_assessment/5Fax: 903-510-2161<br/>testingservice@tjc.eduTesting Centers: M Campus 903-510-2617West Campus: 903-510-2993Admissions: 903-510-2523Patrona State Provide Pro

<u>Colorado Christian University:</u> Registration is online: www.ccu.edu/dualcredit <u>Colorado Christian University</u> Contact Information: <u>dualcredit@ccu.edu</u> **Kaycie Hanlin** Colorado Christian University O: 303.963.3029 <u>ccu.edu/academy</u>

## DUAL CREDIT COLLEGE COURSE DESCRIPTIONS

#### **Colorado Christian University:**

#### **POL 207 - Introduction to American Politics**

Introduction to political science and American government to prepare students to be effective citizens.

#### ECO 215 - Introduction to Economics

This course covers what everyone needs to know about how the economy works.

#### HIS 205 - American History/ HIS 206- The Making of Modern America **6 Hours**

American History. Principles of the founding and the political, economic, intellectual, cultural, and religious traditions that have shaped America.

The Making of Modern America. This course centers on the development of America politically, socially, economically, and religiously from the Civil War Era to the 20th century.

#### **ENG 102 - English Composition**

English Composition. Effective use of the English language and exploration of rhetorical modes in written composition. Review of structure, purpose, and audience awareness in developing essays.

#### ENG 104 - Introduction to College Writing

This course focuses on the development and strengthening skills of effective business and professional communication in both written and oral modes. The course includes heavy emphasis on effective research and the process of writing with a particular focus on both academic and business writing. Development of skills in research and writing of formal academic papers: critical thinking, argumentation, and documentation.

#### BIO 101 - Biological Life/ BIO 111 Biological Life Lab

An introduction to the field of biology. Life processes common to plants and animals, cell structure and function, and an introduction to genetics, biochemistry, and development.

#### PHY 105-Environmental Science/PHY 106- Environmental Science Lab

(4) An exploration of environmental issues including population growth, energy use, global climate change, air-water-solid waste pollution, resources, stewardship, solutions and sustainability. Through readings, lecture, and discussion we will examine geological, biological, chemical, economic, political, and social aspects of environmental issues on personal, local, national, and global scales.

#### MKT 202 - Principles of Marketing

Strategic planning of a marketing mix (product, price, promotion, and distribution) within the context of the external business environment, including target market analysis. Also, impact of technology and globalization on the field of marketing.

#### **3 Hours**

**3 Hours** 

**3 Hours** 

**3 Hours** 

**3 Hours** 

#### 3 Hours

#### **3 Hours**

#### **Tyler Junior College:**

#### MATH 1314 College Algebra

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. TSI Complete Math Required for Enrollment

#### MATH 1316 Plane Trigonometry

In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. TSI Complete Math **Required for Enrollment** 

#### **MATH 1324 Mathematics for Business & Social Sciences**

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value.

#### **MATH 1342 Elementary Statistical Methods**

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. TSI Complete Math Required for Enrollment

#### MATH 2413 Calculus I

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Prerequisite: MATH 1314/1414 and MATH 1316, or MATH 2412 with a grade of "C" or better or acceptable placement test score

## **3 Hours**

#### **3 Hours**

**3 Hours** 

**3 Hours** 

4 Hours

#### **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 Honors (H), Dual Credit (DC), and Advanced Placement (AP) classes receive extra weighting. These additional values are added to the numerical average before determining the grade point average (GPA). *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.* The following grade bumps apply to the class of 2025 and beyond. The grade bumps for the class of 2024 can be found in the 2022-2023 Curriculum Guide.

Courses labeled Honors (H) will receive 3 extra points added to their numerical grade at the end of each semester.

Courses that have been approved through Tyler Junior College or Colorado Christian University for dual credit will receive an extra weighting of 3 points added to their numerical grade at the end of each semester.

Courses designated as AP will receive an extra weighting of 8 points added to their numerical grade at the end of each semester. All students are required to take the AP exam to receive the points and have the AP designation appear on the transcript.

The courses approved for weighting as well as H, 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 8 extra points at Brook Hill:

AP Art: 2-D Art and Design AP Art: 3-D Art and Design AP Art: Drawing (AP) AP Spanish 4 (AP) AP Calculus AB (DC) AP Calculus BC AP Chemistry AP Computer Science A AP Environmental Science (AP/DC) AP Language & Composition (English 11) AP Literature & Composition AP Macroeconomics AP Physics 1 AP Physics 2 AP Precalculus

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

Algebra 2 (H) Anatomy/Physiology (DC) Biology (H) Biology (DC) Business Math/ Statistics (DC) Chemistry (H) College Algebra/College Trigonometry (DC) Economics (DC) English 12 (DC) Geometry (H) Government (DC) Humanities 9 (H) Humanities English 10 (H) Humanities US History 11 (H) US History (DC)

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

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 understand how biblical principles apply to today's situations.

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 significant 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.

> DON'T LET ANYONE LOOK DOWN ON YOU BECAUSE YOU ARE YOUNG, BUT SET AN EXAMPLE FOR THE BELIEVERS IN SPEECH, IN SPEECH, IN LOVE, IN FAITH, AND IN PURITY. 1 TIMOTHY 4:12

#### Bible 9

In 9th grade, 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.

Bible 10

Grade: 10

Two Semester Course

Credit: 1.0

The Bible 10 course will focus its attention on learning to read the Bible well. This course will reiterate the metanarrative (Big Story) of scripture that our middle school students have worked to learn. Students will (re)visit many of these key passages of scripture with an added Bible study methodology. The curriculum will introduce a simple methodology that will allow students to read the Bible carefully through observations, identify important literary and historical characteristics of the passage, draw out Biblical principles, and apply those principles in our modern context. In this course, students will proactively study the entire story of the Bible, learning how the principles in it can be lived out in their lives.

#### Bible 11

Grade: 11

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.

Two Semester Course

#### Bible 12

Grade: 12

Two Semester Course

Credit: 1.0

Credit: 1.0

Senior Bible is a capstone course designed to prepare students for the rigors of college. University life challenges students on several 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. PARTMEN ARTS 

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."

ALL THINGS HAVE BEEN CREATED THROUGH HIM AND FOR HIM. HE IS BEFORE ALL THINGS, AND IN HIM ALL THINGS HOLD TOGETHER. COLOSSIANS 1:17

#### Art: 2D Art and Design

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

2D Art and Design is an introductory level course focusing on two-dimensional art, including drawing, painting, collage, and mixed media. Students will gain foundational skills in 2D design strategies, understanding and developing visual narrative, and creating visual interest in the composition of a work of art. Emphasis will be placed on developing works of art utilizing the principles and elements of design, color theory, and other artistic skills. A variety of media and techniques are explored. Students will be expected to complete 2-3 finished works during the semester. Art history and appreciation are integrated into all Brook Hill Art courses through Artist of the Week discussions and other activities. Students will learn to articulate a critical analysis of various works of art, including that of professional artists', their own, and their peers', both verbally and in writing.

One Semester Course

#### Art: Introduction to Drawing

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

One Semester Course

Credit: 0.5

Introduction to Drawing is an introductory level course focusing on drawing skills and techniques that will utilize a variety of drawing media, including graphite pencil, charcoal, colored pencil, oil and chalk pastels, and pen and ink. Students will develop foundational drawing skills and will utilize composition, visual narrative, and design strategies to create visually compelling drawings. Emphasis will be placed on skill development for the first 9 weeks and then create 2-3 major drawing projects for the second 9 weeks. Art history and appreciation are integrated into all Brook Hill Art courses through Artist of the Week discussions and other activities. Students will learn to articulate a critical analysis of various works of art, including that of professional artists, and their peers, both verbally and in writing.

#### **Art: Printmaking Processes**

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

One Semester Course

Credit: 0.5

Printmaking Processes is an introductory-level course focusing on traditional printmaking techniques, including primary woodblock, linocut, and silkscreen methods. Students will gain foundational skills in these three printmaking processes and will utilize compositional skills, visual narrative, and design strategies to create compelling prints. The semester will be divided into 4 segments, each one focusing on a specific printmaking process that will result in final print series of 5 and at least two monoprints per printmaking process. As in other Art courses, emphasis will be placed on developing works of art that utilize the principles and elements of design, color theory, and other compositional skills. Art history and appreciation are integrated into all Brook Hill Art courses through Artist of the Week discussions and other activities. Students will learn to articulate a critical analysis of various works of art, including that of professional artists', their own, and their peers', both verbally and in writing.

Credit: 0.5

#### Art: Digital Photography

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

#### One Semester Course

Digital Photography is an introductory level course focusing on the use of smart phones, digital SLRs, and photo-processing software to create interesting and visually compelling photographic images. Students will gain foundational knowledge and skills in basic photography techniques, including lighting, posing the subject, composition of the image, the rule of thirds, camera settings, use of filters, exposure, etc. Students will learn to 'capture the story' of an event, a person, an object, etc. to create visual narrative through their photographic images. Photography students will create at least one 'photo essay' on a subject, and several individual photographs that are theme or subject driven. As in other Art courses, emphasis will be placed on developing works of art utilizing the principles and elements of design, color theory, and other artistic skills. Students will be expected to print at least 10 final images, which may need to be ordered online. Art history and appreciation are integrated into all Brook Hill Art courses through Artist of the Week discussions and other activities. Students will learn to articulate a critical analysis of various works of art, including professional artists', their own, and their peers', both verbally and in writing.

#### Advanced Art

Grade(s): 11, 12 One Semester Course Prerequisite(s): Four semesters of art and instructor approval Credit: 0.5

Advanced Art is a multi-level course that will allow for students to explore a variety of media choices toward their further growth and development as an artist. Students must take at least one full year of introductory visual art courses before registering for Advanced Art. Emphasis will be placed on the individual development of a portfolio of work, which may lead to the submission of an AP portfolio to the College Board (2D Studio Art and Design, 3D Studio Art and Design, Drawing). (If an AP portfolio is submitted to the College Board for review, the student will receive AP credit and will be awarded 5 points to their final GPA in the course). Students will be allowed to take Advanced Art for more than one school year and will be expected to increase in their personal development as an artist during each semester. Art history and appreciation are integrated into all Brook Hill Art courses through Artist of the Week discussions and other activities. Students will learn to articulate a critical analysis of various works of art, including professional artists', their own, and their peers', both verbally and in writing.

#### AP Studio Art: 2-D Art and Design

Grade(s): 11, 12 Two Semester Course Prerequisite(s): Four semesters of art and 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. *Students who successfully complete this course and submit an AP portfolio will receive eight additional points added to their semester averages.* 

#### Studio Art: 3-D Art and Design (AP)

Grade(s): 11, 12 Two Semester Course Prerequisite(s): Four semesters of studio art and Instructor approval Credit: 1.0

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. Students learn to take inventive and informed risks. **Students who successfully complete this course and submit an AP portfolio will receive eight additional points added to their semester averages.** 

#### **AP Studio Art: Drawing**

Grade(s): 11, 12 Two Semester Course Prerequisite(s): Four semesters of art and Instructor approval Credit: 1.0

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 or drawing media and techniques. 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 successfully complete this course and submit an AP portfolio will receive eight additional points added to their semester averages.

Credit: 1.0

#### Digital Media

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 implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

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 state tournament is a principal 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.

Drum Line

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

Two Semester Course

Credit: 1.0

The Brook Hill Drum Line *Spirit of the Guard* 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. 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.

## Two Semester Course

Guitar 2 is a two-semester class designed for the experienced guitar player. 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, drumbeats, and bass lines. Most months the Guitar 2 class will be responsible for providing music for 1 or more chapel services. Almost all the music used in the course will be Christian Praise and Worship songs with a few exceptions.

**Music Appreciation** Grade(s): 9, 10, 11, 12

Music Appreciation is a non-performing class. This class will acquaint the student with a wide range of musical styles and genres through an overview of the elements of music (basic music theory), components of the orchestra, and a general study of music history, both vocal and instrumental.

Orchestra		
Grade(s): 9, 10, 11, 12	Two Semester Course	Credit: 1.0

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.

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.

#### Two Semester Course

Guitar is 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 Prerequisite: Guitar 1

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

Guitar 1

Two Semester Course

Stage Craft

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

Two Semester Course

Credit: 1.0

Credit: 1.0

Credit: 1.0

Credit: 1.0

Varsity Choir		
Grade(s): 9, 10, 11, 12	Two Semester Course	

Credit: 1.0

Varsity Choir is an advanced, auditioned choir of 9<sup>th</sup> through 12<sup>th</sup> 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. All members are expected to retain grade eligibility and maintain a professional standard of character representing the excellence and tradition of the Guard Chorale.

#### Yearbook

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

Two Semester Course

Credit: 1.0

Students 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. Students may be required to complete a formal application in order to be selected for the yearbook staff.

5 M S S S 

God is a communicator. In fact, He calls Himself the Word. The study of a world language and culture helps the student understand more of the diversity of God's creation. World 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. In today's world, knowledge of another language is a great asset in obtaining a job in many highly competitive fields. Each world 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.

> THEREFORE, GO AND MAKE DISCIPLES OF ALL NATIONS, BAPTIZING THEM IN THE NAME OF FATHER AND OF THE SON AND OF THE HOLY SPIRIT. MATTHEW 28:18

#### 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 2Grade(s): 9, 10, 11, 12Two Semester CoursePrerequisite(s): Spanish 1, Placement test required for transfer students

Credit: 1.0

Students will continue building on skills learned in Spanish 1. They will focus on attaining 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 write fluently in the language. Literature is introduced at a basic level 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

Grade(s): 10, 11, 12 Two Semester Course Prerequisite(s): Spanish 2, Placement test required for transfer students Credit: 1.0

Credit: 1.0

Students will continue building upon language skills in the target language received in levels 1 and 2. They will aim toward proficiency in oral conversation. Students will receive much of their instruction in the target language, requiring understanding and the ability to manipulate the language comfortably between one another and with native speakers. The students will be introduced to more complex language structures through literature, classroom interactions, field trips, and other activities. The five areas of learning: speaking, 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.

#### AP Spanish 4

Grade(s): 10, 11, 12 Two Semester Course Prerequisite(s): Spanish 3, Placement test required for transfer students

The AP Spanish Language and Culture course emphasizes communication by applying interpretive, and presentational skills in real-life situations. This includes

interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. The course is taught almost exclusively in Spanish to facilitate the study of language and culture. Students explore culture in both contemporary and historical contexts. The students develop awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, and institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

The Brook Hill School of Business is dedicated to preparing students as Christian leaders in the world of business. We offer a comprehensive curriculum that includes courses in business principles, marketing, business experience, investing, personal finance, entrepreneurship, sports management, and economics. In addition to traditional classroom instruction, we offer a range of hands-on learning opportunities, projects, and collaborations. These experiences provide students with the chance to apply their knowledge in a real-world setting and gain practical skills.

Our program encourages students to explore the world of business through a Christian worldview. This includes helping them to develop a business mindset with values such as integrity, honesty, justice, fairness, compassion, and service of others. These values will help students as they seek to mirror Christ to those around them, including their coworkers, managers, employees, customers, suppliers, and others.

Whether students are interested in pursuing a career in business, starting their own venture, or simply gaining a deeper understanding of business, our program can provide students with the tools they need to navigate complex ethical issues and make informed decisions that align with their Christian values.

> THEREFORE, AS GOD'S CHOSEN PEOPLE, HOLY AND DEARLY LOVED, CLOTHE YOURSELVES WITH COMPASSION, KINDNESS, HUMILITY, GENTLENESS, AND PATIENCE. COLOSSIANS 3:12

#### **BH Business Experience**

One Semester Course

Credit: .0.5

Grade(s): 11, 12 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. Students will earn elective credit in lieu of wages.

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

One Semester Course

Credit: .0.5

This 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. Instructional delivery methods range from lecture, assessments, and guest speakers to in-depth/hands-on/project-based-learning.

Entrepreneurship

Grade(s): 11, 12 Prerequisite: Business Principles One Semester Course

Credit: .0.5

This is a semester course in which students will take concepts learned in our Business Principles course and apply them to the basics of entrepreneurship. Students will learn what it means to define and develop an entrepreneurial mindset and gather tools that they can apply to various business ideas throughout their lifetime. Students will be challenged to step out of their comfort zone, to learn to respond quickly to change, how to give and receive helpful critique, and how to collaborate with a team.

Investing 101 Grade(s): 11, 12 Prerequisite: Business Principles

One Semester Course

Credit: .0.5

In this course students will take concepts learned in our Business Principles course and apply them to the various aspects of investing. In this class, students will discover their tolerance for risk under various conditions and develop an individualistic investment strategy. They will be challenged to keep up with markets and emerging events that affect their portfolios, learn how to prepare wisely for retirement, and above all to put Godly principles of finance into practice both now and in the future.

#### Marketing (DC)

Grade(s): 9, 10, 11, 12 Prerequisite: Business Principles One Semester Course

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 apply the basics they learned in Business Principles and dive deeper into the study of Marketing. Students will take an in-depth look at 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. **Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete the dual credit portion of the course will receive three additional points added to their semester averages.** 

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

One Semester Course

Credit: .0.5

This semester course aims to provide students with an understanding of financial concepts and strategies, that will help them make informed financial decisions throughout their lives. Topics include: budgeting, saving, investing, managing debt and the relationship between credit and borrowing. Throughout the course, students will have the opportunity to apply their knowledge through practical exercises and real-world scenarios.

**Sports Management** Grade(s): 10, 11, 12 Prerequisite: Business Principles

One Semester Course

Credit: .0.5

In this yearlong course, students will apply concepts learned in our Business Principles course and how they 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. The philosophy of the Brook Hill Humanities Department is 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.

> STAND FIRM THEN, WITH THE BELT OF TRUTH BUCKLED AROUND YOUR WAIST, WITH THE BREASTPLATE OF RIGHTEOUSNESS IN PLACE. Ephesians 6:14

**NAN** 

#### Humanities 9: Western Civilization 1

Grade: 9

Two Semester Course

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 fall of the western Roman Empire. 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, The Enuma Elish, Exodus, The Epic of Gilgamesh, The Odyssey,* Plato's *Apology, The Aeneid, On the Incarnation,* and *Beowulf.* 

Humanities 9 Honors: Western Civilization 1Grade: 9Two Semester CourseRecommendation: PSAT Reading content score of 26 or above

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 fall of the western Roman Empire. 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, The Enuma Elish, Exodus, The Epic of Gilgamesh, The Odyssey,* Plato's *Apology, The Aeneid, On the Incarnation,* and *Beowulf.* 

As an Honors course, Humanities 9 (H) will prepare students to take AP English courses in 11th and 12th grades by requiring deeper probing of texts, more analytical and in-depth tests and writing assignments. In addition, students 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: 10

Two Semester Course

Credit: 2.0

This year's study continues a two-year course which leads students through the history and 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 interaction with 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 and philosophical writings. Key works read include *The Inferno, Henry V or Othello, Paradise Lost,* and *The Picture of Dorian Gray*.

Humanities 10 Honors: Western Civilization 2Grade: 10Two Semester CourseRecommendation: PSAT Reading content score of 26 or above

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 interaction with 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 Inferno, Othello, Paradise Lost,* and *The Picture of Dorian Gray*.

As an Honors course, Humanities 10 (H) 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), as well as more analytical and in-depth tests and writing assignments. In addition, students 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 that offers 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 recent American history. 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 English Language/Composition and United States History HonorsGrade: 11Two Semester CourseCredit: 2.0Recommendation: PSAT Reading content score of 28 or above

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 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 recent American history. 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 and take the AP exam will receive eight additional points added to their semester averages.** 

English 12: Composition and Literary Genres (DC) 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, 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 workload and expectation is greater than at a typical school, though it is not at the level of AP English 12. *Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete the dual credit portion of this course will receive three additional points added to their semester averages.* 

#### English 12: AP Literature and Composition

Grade: 12 Two Semester Course Credit: 1.0 Recommendation: Teacher Recommendation, 85 or higher in Humanities 11, PSAT Reading content score of 28 or above

AP 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, students will gain a greater appreciation for and insight into what it means to be human.

AP English 12 and English 12 are similar courses in terms of literary content. However, the AP course requires more readings and is much more rigorous. 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 successfully complete this course and take the AP exam will receive eight additional points added to their semester averages.* 

Humanities for English Language Learners Grade(s): 9, 10 Two Semester Course

Credit:1.0

ELL (English Language Learners)–English is an introduction to English language course designed to help students whose English speaking, writing, and reading comprehension skills need further improvement. The goal of the course is simple: the development of students' English skills through speaking, listening, writing, and reading, in order that they may successfully transition into Brook Hill's college prep courses. The curriculum focuses on grammar, journal writing, stories from the ancient world, and introductory essay writing. Assignments will progressively become more difficult as the semester (and year) advances.

#### Humanities for English Language Learners

Grade(s): 9, 10

Two Semester Course

Credit:1.0

ELL (English Language Learners)–History is an introduction to world history course designed to help students whose English speaking, writing, and reading comprehension skills need further improvement. This course complements ELL–English, and thus has similar goals: the development of students' English skills through reading, writing, listening, and speaking, in order that they may successfully transition into Brook Hill's college prep courses. The curriculum focuses on ancient world history, including texts from the Old Testament, and on vocabulary acquisition. Assignments will progressively become more difficult as the semester (and year) advances.

#### Macroeconomics (DC)

Grade: 12

#### One Semester Course

Credit: 0.5

Macroeconomics is a branch of economics that focuses on the functions of a free market economy, supply and demand, the global economy, money and banking, monetary and fiscal policy and more. Macroeconomics 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 workload and expectation is greater than at a typical school, though it is not at the level of AP Macroeconomics. Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete the dual credit portion of this course will receive three additional points added to their semester averages.

**AP Macroeconomics** 

Grade: 12

Two Semester Course

Credit: 1.0

AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. The pace and depth of the course is designed to prepare students for College Board Advanced Placement testing in the spring. AP Macroeconomics and Macroeconomics (DC) are similar in content. However, the AP course requires more reading, more content, and is much more rigorous. 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 Macroeconomics. *Students who successfully complete this course and take the AP exam will receive eight additional points added to their semester averages.* 

United States Government (DC)

Grade: 12

Two Semester Course

Credit: 1.0

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. 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 on-level US Government. Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete the dual credit portion of this course will receive three additional points added to their semester averages. 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. Students who successfully complete the dual credit portion of this course will receive three additional points added to their semester averages.

LAN  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.

HE DETERMINES THE NUMBER OF THE STARS AND CALLS THEM EACH BY NAME. PSALM 147:4

# 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 Prerequisite: Algebra 1 Two Semester Course

Credit: 1.0

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 Honors		
Grade(s): 9, 10	Two Semester Course	Credit: 1.0
Prerequisite: Algebra 1		
Recommendation: PSAT M	lath content score of 25 or higher, Algebra s	core of at least 85.

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 Prerequisite: Algebra 1

#### Two Semester Course

Credit: 1.0

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 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 Honors

Grade(s): 10, 11Two Semester CourseCredit: 1.0Prerequisite: Algebra IRecommendation: PSAT Math content score of 26 or higher, Geometry score of at least 85

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 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 Prerequisite: Algebra 2, must pass the TSI or be exempt Credit: 1.0

Business Math 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 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.* 

#### Algebra 3

Grade(s): 11, 12 Prerequisite: Algebra 2 Two Semester Course

Credit: 1.0

Algebra 3 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 Trigonometry (DC)Grade(s): 11, 12Two Semester CourseCredit: 1.0Prerequisites: Algebra 2, must pass the TSI or be exemptRecommendation: PSAT Math content score of 26 or higher, Algebra 2 score of at least 85

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; 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 three additional points added to their semester averages.** 

# AP Precalculus Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisite(s): Algebra 2

Recommendation: PSAT Math content score of 28 or higher, Algebra 2 score of at least 90

AP Precalculus is offered at an advanced pace and includes the study of quadratics; polynomial, rational, logarithmic, and exponential functions; systems of equations; conic sections; sequences and series; and matrices and determinants; trigonometric identities, analytic geometry and analytic trigonometry, graphing trigonometric functions and identities; as well as an introduction to polar, parametric, vector functions and limits. **Students who successfully complete this course and take the AP exam will receive eight additional points added to their semester averages.** 

AP Calculus AB (DC)

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisite(s): College Algebra / College Trigonometry; AP Precalculus

Recommendation: PSAT Math content score of 28 or higher, College Algebra/Trigonometry or AP Precalculus score of at least 85

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 is based on teacher approval. **Students taking this course for dual credit must meet the college's guidelines. Students who successfully complete this course and take the AP exam will receive eight additional points added to their semester averages.** 

# AP Calculus BC

Prerequisite: AP Calculus AB

Grade:12

Two Semester Course

Credit: 1.0

Recommendation: PSAT Math content score of 28.5 or higher, AP Calculus AB score of at least 85 or AP Precalculus score of at least 90.

Topics include those presented in traditional second and third-semester college courses. Several problem-solving applications follow an intuitive introduction to the methods of calculus. 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 is based on teacher approval. 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 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.

> IN THE BEGINNING GOD CREATED THE HEAVENS AND THE EARTH. GENESIS 1:1

SCIENCE

#### Biology

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 Honors** 

Grade: 9

Two Semester Course

Credit: 1.0

Recommendation: PSAT Reading content score of 26 or higher, Math content score of 25 or higher

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

Grade: 10 Prerequisite: Algebra 1 Two Semester Course

Credit: 1.0

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 Honors

Grade: 10

Two Semester Course

Credit: 1.0

Prerequisite: Algebra I Recommendation: PSAT Reading content score of 26 or higher, PSAT Math content score of 25 or higher

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.** 

#### Earth and Space Science

Grade(s): 11, 12 Prerequisites: Biology, Chemistry Two Semester Course

Credit: 1.0

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.

# Physics 1

Grade(s): 11, 12 Prerequisites: Biology, Chemistry Two Semester Course

Credit: 1.0

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.

#### AP Physics 1

Grade(s): 11, 12 Two Semester Course Prerequisites: Biology, Chemistry, Algebra II Recommendation: PSAT Reading & Math content score of 28 or higher Credit: 1.0

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 and take the AP exam will receive eight additional points added to their semester averages.* 

# AP Physics 2

Grade(s): 11, 12

Two Semester Course

Credit: 1.0

Prerequisites: AP Physics 1

Recommendation: PSAT Reading content score of 28 or higher, Math content score of 30 or higher

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 and take the AP exam will receive eight additional points added to their semester averages.* 

# Anatomy & Physiology (H)

Grade(s): 11, 12 Prerequisites: Biology, Chemistry Credit: 1.0

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 three additional points added to their semester averages.** 

Two Semester Course

# **Biology DC**

Grade(s): 11, 12 Two Semester Course Prerequisites: Biology, Chemistry Recommendation: PSAT Reading content score of 28 or higher

Credit: 1.0

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.** 

# AP Chemistry

Grade(s): 11, 12 Two Semester Course Prerequisites: Biology, Chemistry (Honors Chemistry preferred) Recommendation: PSAT Reading and Math content score of 28 or higher Credit: 1.0

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 and take the AP exam will receive eight additional points added to their semester averages.* 

AP Environmental Science			
Grade(s): 11, 12	Two Semester Course	Credit: 1.0	
Prerequisites: Biology, Ch	emistry		
Recommendation: PSAT R	leading content score of 28 or higher		

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 and take the AP exam will receive eight additional points added to their semester averages.* 

# **ELECTIVES**

# ACE Peer Tutoring

Grade(s): 10, 11, 12 One Semester Course Prerequisite: Instructor approval, application process required Credit: 0.5

Peer tutors facilitate student learning by helping clarify specific course content and promote the use of appropriate study strategies. Tutors will work directly with the ACE staff and may consult with faculty for course resources, guidance, and direction in their tutoring work. Tutors may conduct one -on-one or small group sessions to assist students with course-related concepts or developing effective study skills. Becoming a peer tutor will develop leadership and interpersonal communication skills while developing career competencies that prepare for a successful transition into the future workplace. Students will earn elective credit in lieu of wages.

Computer Science: Coding Grade(s): 9, 10, 11, 12

Two Semester Course

Credit: 1.0

The internet is made up of three standard programming languages: HTML, SQL, and JavaScript. This course will look at each of these languages so that students can better understand the internet that they engage with on a normal basis. While Computer Science: Coding will explore each of these languages and the ways that work together, it will lean harder and more specifically into JavaScript. Using the ProcessingJS library students will experiment with the visual nature of computer programming, and problem solving all while learning the foundational structures of Computer Science.

Computer Science: JavaGrade(s): 9, 10, 11, 12Two Semester CourseCredit: 1.0

In Computer Science: Java students will explore the basic and intermediate systems for how computers process information. Computer programming will be covered in three different computer language environments: Scratch, Jeroo, and Java. The skills and knowledge covered in this class will directly prepare students for AP Computer Science A as well as be easily transferable as students learn other computational languages in the future.

# AP Computer Science A

Grade(s): 10, 11, 12 Two Semester Course Prerequisite: Computer Science: Java, Computer Science: Coding

Java is one of the most commonly use programming languages in the world, and this course will take a deep dive into the skills, functions, and strategies to get the most out of computer programming. Content and curriculum for this course will prepare student to confidently build their own programs and solve the problems of the future. While this course will specialize in the Java language, the skills gained in this class will make learning new programming languages easy. **Students who successfully complete this course will receive eight additional points added to their semester averages.** 

**Philosophy: Ancient** 

Grade(s): 10, 11, 12

Two Semester Course

Credit: 1.0

By careful reading, the student will obtain a command of Plato's theory of being, theory of knowledge, and his ethical theory as expressed in *The Republic* and will develop an understanding of Aristotle's philosophy as expressed in the *Nicomachean Ethics*. By carefully engaging these texts, the student will become familiar with the methods of philosophy as well as its central questions with the goal of recognizing the importance of Plato and Aristotle as cornerstones of the western intellectual tradition. This course is offered on a three-year rotation in conjunction with the other philosophy courses.

# Philosophy: Contemporary

Grade(s): 10, 11, 12

Two Semester Course

Credit: 1.0

A survey of contemporary philosophy and philosophers. In addition to a general survey of the contemporary philosophical landscape, students learn the place and development of theism in contemporary analytic philosophy. Focus will be given to learning how contemporary developments in analytic philosophy have been applied with increasing sophistication to issues in natural theology and philosophy of religion. Emphasis will be placed on evaluating arguments while simultaneously learning how to give a charitable and close reading to the texts. This course is offered on a three-year rotation in conjunction with the other philosophy courses.

Credit: 1.0

#### Philosophy: Medieval & Modern

Grade(s): 10, 11, 12

Two Semester Course

Credit: 1.0

A survey of medieval, modern and contemporary philosophers, including but not limited to Boethius, Anselm, Aquinas, Descartes, Berkeley, and Hume. In this course, students learn the importance of theism in the history of western thought, understand how a belief in God fits together with various philosophical positions, and become familiar with various philosophical issues – including the concept of divine simplicity, the conflict between empiricism and rationalism, and the conflict between realism and idealism. Emphasis will be placed on evaluating arguments while simultaneously learning to give a charitable and close reading to the texts. This course is offered on a three-year rotation in conjunction with the other philosophy courses.

# **Practical Politics**

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

Two Semester Course

Credit: 1.0

This elective course will examine current issues from a traditional Christian perspective and, where applicable, the American Founder's original intent. Such issues could include 1<sup>st</sup> Amendment rights (freedom of religion, speech, and assembly), 2<sup>nd</sup> Amendment rights, abortion, capitalism, socialism, criminal justice, and various social issues. Students will explore these issues from the above perspectives, understand what they believe, and be able to articulate and defend their positions. Our desire is for students to become societal influencers in order to make a difference in our nation and world, rather than mere bystanders. We would also explore ways to become involved in politics and what it takes to organize a political campaign. The goal would be to encourage students to participate in politics at some level: from working in a campaign, to becoming a staff member of an elected official, or even becoming a candidate for public office themselves.

Robotics

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

Two Semester Course

This course is designed to develop science, technology, engineering, and math skills through design thinking and student-centered inquiry. Students will participate in a competition designed and administered by the FIRST (For Inspiration and Recognition of Science and Technology) organization. Students will learn basic robot design, construction, and programming.

# Senior Seminar

Grade: 12

One Semester Course

Credit: 0.5

Credit: 1.0

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.

#### Woodworking & Fabrication

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

Two Semester Course

Credit: 1.0

Woodworking is a course designed to introduce students to general woodworking practices. Students will expand their knowledge and experience through various projects, lessons, and vocabulary. Students will be expected to learn about and safely use hand tools, power tools, and woodworking machinery. Fabrication allows for more flexibility and creativity as students will complete assigned projects intended to introduce a variety of tools, technologies, and materials while fostering confidence in their unique gifts, talents, and abilities. Topics of study will include 3D printing, laser cutting, laser engraving and more.

The following SPARC courses receive high school credit and will count towards elective credits needed for graduation.

# SPARC Forensic Science

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

Credit 0.5

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, chemistry, physical sciences and biology, as they apply to processing a crime scene and interpreting evidence.

During this SPARC intensive, students will learn how to secure a crime scene, handle crime scene evidence correctly as to maintain the chain of evidence and use this evidence to create a crime board. Additionally, they will collect and process fingerprint and blood evidence. Student will also have gain experience in collecting and processing hair and fiber evidence as well as stabilizing and retrieving impression evidence such as shoe and footprints. At the end of the course students will apply deductive reasoning to determine who perpetrated the crime from "Murder at Old Fields" a historic double homicide.

# SPARC God Debates

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

Credit 0.5

The God Debates SPARC course provides students with the opportunity to view formal debates between notable academic theists and skeptics on various topics pertaining to theism (generally) and Christianity (in particular). Debate topics may include the question of God's existence, the question of human nature, the question of Jesus' resurrection, the question of the reliability of the Gospels, and other related topics. Students will have the opportunity to analyze the debates after viewing them.