

**AP CONTRACT: Please be sure to complete the AP google form:  
<https://forms.gle/MJZZ9AtVpN53o43p7>**

**Contract Statement:** Students and parents should read carefully and then sign and date below.

The Advanced Placement courses are offered for students who have demonstrated high academic achievement and a serious approach to learning. All AP classes require some or all of the following: excessive reading, critical and analytical thinking and writing skills, and laboratory or studio work. Good attendance is mandatory. The standard and expectations listed below must also be met:

- AP exams are required of all students that are enrolled in AP courses and qualify for the exam. Academic performance will determine your eligibility to sit for the exam in each course. A final exam will be given in place of the College Board exam if you do not qualify.
- Each AP exam has a fee of around \$100; the student/parents will be billed in the spring through the BCS business office.
- AP students must maintain a nine-week minimum average of a C. Otherwise, the student's schedule/designation may be changed to an honors or standard class. (Any exceptions to this will be at the discretion of the principal, after consulting with the AP teacher and/or committee.)
- An AP Committee (AP Teachers, Counselors and Administrative Staff) reserves the right and has the final decision to admit students to AP courses.

**I have read the requirements and will abide by them. I understand the commitment to the Advanced Placement program.**

\_\_\_\_\_  
Student's Printed Name

\_\_\_\_\_  
Student's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent's Signature

\_\_\_\_\_  
Date

Student's Name: \_\_\_\_\_

Present Grade: \_\_\_\_\_

## **AP BIOLOGY Application**

**Complete the following and attach to your AP Contract.**

Plants lose water from their aboveground surfaces in the process of transpiration. Most of this water is lost from stomata, microscopic openings in the leaves. Excess water loss can have a negative effect on the growth, development, and reproduction of a plant. Severe water loss can be fatal. Environmental factors have a major impact on the rate of plant transpiration.

### **TRANSPIRATION RATE VERSUS TEMPERATURE**

Temperature degrees C	20	23	27	28
Transpiration rate (mmol/m <sup>2</sup> sec)	1.5	3	5	4.5

(a) Using the data above and the axes provided, draw a graph showing the effect of temperature change on the rate of transpiration. Explain the shape of the curve from 23 degrees to 28 degrees.

(b) Humidity is an environmental factor that affects transpiration rate. Using the axes provided, draw a curve that illustrates what you predict would be the rate of transpiration with increasing humidity and constant temperature. Justify the shape of the curve based on your prediction.

Student's Name: \_\_\_\_\_

Present Grade: \_\_\_\_\_

## **AP Spanish Application**

Contesta las preguntas en español.

1. ¿Por qué te gustaría tomar la clase de español AP?
2. ¿Qué te gusta más sobre la clase de español y por qué? (la gramática, hablando, escribiendo, leyendo, la cultura, etc.)
3. Describe tus metas en la escuela para el año que viene.

Student's Name: \_\_\_\_\_ Present Grade: \_\_\_\_\_

## **AP Music Theory Application**

Those wishing to be in AP Music Theory must take online tutorials during the summer before the school year begins. The website for these tutorials is [www.musictheory.net](http://www.musictheory.net). Once you get to the home page, click on the box that says "Lessons". You will see a drop-down menu. You must complete all of the lessons through "Key Signature Calculation". That is a total of 13 lessons. You may use the "Trainers" on the main page to practice what you have learned. Of particular helpfulness are the Note Trainer, Key Trainer, and Keyboard Trainer.

The first day of class, you will be tested on this material. You must receive a passing score on this pre-test in order to continue enrollment in the AP Music Theory course. Those who do not pass the pre-test will be asked to transfer out of the class.

The materials covered in these online lessons and on the corresponding pre-test are FUNDAMENTALS of music theory. Because the AP Music Theory Test is so detailed and advanced, you must come into my class with these fundamentals well in-hand.

If you have any questions about this, please e-mail me at [jdfrizzell@briarcrest.com](mailto:jdfrizzell@briarcrest.com).

I look forward to having you in AP Music Theory next year!

-Dr. Frizzell

I have read the information about the AP Music Theory Pre-Test requirements and I understand and agree to the terms and conditions.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date

Student's Name: \_\_\_\_\_ Present Grade: \_\_\_\_\_

## **AP English 11 Application**

Each applicant for AP English must complete this form.

Homeroom: \_\_\_\_\_

ACT: Reading \_\_\_\_\_ English \_\_\_\_\_ Writing \_\_\_\_\_

List below your English teachers and your semester average in each class:

Grade 9 Teacher: \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

Grade 10 Teacher: \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

Grade 9 Research Paper Topic and Grade \_\_\_\_\_

Grade 10 Research Paper Topic and Grade \_\_\_\_\_

1. On a separate sheet of paper, discuss the topic of your sophomore research paper, explaining the value of this topic to your maturity as a perceptive reader.
2. On a separate sheet of paper, explain the reasons you want to be enrolled in this class.

**Prerequisite for AP English 11: 93 in 10<sup>th</sup> grade honors English; a Satisfactory School-Administered Writing Sample; a 90<sup>th</sup> percentile or higher on the Critical Reading and Writing Skills sections of the PSAT/NMSQT or equivalent on other standardized tests**

**LATE APPLICATIONS WILL NOT BE ACCEPTED.**

**GRAMMATICAL CORRECTNESS, NEATNESS, CLARITY, AND ACCURACY ON THIS APPLICATION ARE SERIOUS FACTORS IN PLACEMENT. UNCLEAR OR GRAMMATICALLY INCORRECT ANSWERS MAY BE CONSIDERED AS FAILURE TO MEET REQUIREMENTS FOR PLACEMENT.**

Student's Name: \_\_\_\_\_ Present Grade: \_\_\_\_\_

## **AP English 12 Application**

Each applicant for AP English must complete this form.

ACT: Reading \_\_\_\_\_ English \_\_\_\_\_ Writing \_\_\_\_\_

List below your English teachers and your semester average in each class:

Grade 9 Teacher: \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

Grade 10 Teacher: \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

Grade 11 Teacher \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

Grade 9 Research Paper Topic and Grade \_\_\_\_\_

Grade 10 Research Paper Topic and Grade \_\_\_\_\_

Grade 11 Research Paper Topic and Grade \_\_\_\_\_

1. On a separate sheet of paper, discuss the topic of your junior research paper, explaining the value of this topic to your maturity as a perceptive reader.
2. On a separate sheet of paper, explain the reasons you want to be enrolled in this class.

**Prerequisite for AP English 12: 93 in 11<sup>th</sup> grade honors English or in AP English 11; a Satisfactory School-Administered Writing Sample; a 90<sup>th</sup> percentile or higher on the Critical Reading and Writing Skills sections of the PSAT/NMSQ or equivalent on other standardized tests.**

**LATE APPLICATIONS WILL NOT BE ACCEPTED.**

**GRAMMATICAL CORRECTNESS, NEATNESS, CLARITY, AND ACCURACY ON THIS APPLICATION ARE SERIOUS FACTORS IN PLACEMENT. UNCLEAR OR GRAMMATICALLY INCORRECT ANSWERS MAY BE CONSIDERED AS FAILURE TO MEET REQUIREMENTS FOR PLACEMENT.**

## AP CHEMISTRY APPLICATION

Applicant name: \_\_\_\_\_

Current grade: \_\_\_\_\_

- Highest level of math: \_\_\_\_\_
  - Semester 1 Average: \_\_\_\_\_
  - Semester 2 Average: \_\_\_\_\_
- List below your science teachers and your semester average for each:
  - Grade 9 Teacher: \_\_\_\_\_
    - Semester 1 Average: \_\_\_\_\_
    - Semester 2 Average: \_\_\_\_\_
  - Grade 10 Teacher: \_\_\_\_\_
    - Semester 1 Average: \_\_\_\_\_
    - Semester 2 Average- To Date: \_\_\_\_\_
  - Grade 11 Teacher (rising Seniors only): \_\_\_\_\_
    - Semester 1 Average: \_\_\_\_\_
    - Semester 2 Average- To Date: \_\_\_\_\_
- Is this your first AP class?
  - If no, please list them and provide your average for each semester completed.
  
  - If yes, please describe what you think an AP class would require of you.

**Complete the brief assessment on page 2.**

Complete the following problems to the best of your ability, using only a basic periodic table.

**You are on the Honor System.**

- Show all work for math problems.
- All word answers must be in complete sentences.
- All numerical answers must have the correct units and number of significant figures.
- Distinguish between *extensive properties* and *intensive properties*. Give an example of each.
- A sample of bismuth has a mass of 343 g and a volume of 35.0 cm<sup>3</sup>. What is the density of bismuth?
- A length is measured to be 1.4000 cm. The correct value is 1.36 cm. Calculate the percent error.
- Provide the following information for Nickel-60:
  - Number of Protons: \_\_\_\_\_
  - Number of Neutrons: \_\_\_\_\_
  - Atomic Mass: \_\_\_\_\_
  - Nuclear Symbol: \_\_\_\_\_
- Iron (III) oxide is formed when iron combines with oxygen in the air. Provide the balanced chemical equation AND calculate how many moles of iron (III) oxide are formed when 16.7 g of iron reacts completely with oxygen?
- What is the percent yield of the reaction if 9.9 g Pb(NO<sub>3</sub>)<sub>2</sub> are heated to give an actual yield of 5.5 g of PbO? What type of reaction is this?  
$$2\text{Pb}(\text{NO}_3)_2(s) \rightarrow 2\text{PbO}(s) + 4\text{NO}_2(g) + \text{O}_2(g)$$
- How many **molecules** of trihydrogen phosphide are formed when 6.2 g of phosphorus reacts with 4.0 g of hydrogen? Provide the balanced chemical equation and indicate the type of reaction this is.



Student's Name: \_\_\_\_\_ Present Grade: \_\_\_\_\_

### **AP Calculus AB/BC and AP Statistics Application**

AP Course(s) Requesting to take in 2021-2022:

- ☐ AP Stats
- ☐ AP Calculus AB
- ☐ AP Calculus BC

ACT: Composite \_\_\_\_\_ Math \_\_\_\_\_ Science \_\_\_\_\_ (AP Stats only)

Math Grade 9 Course: \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

Math Grade 10 Course: \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

Math Grade 11 Course: \_\_\_\_\_ Average: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_

#### **4118 - Advanced Placement Calculus AB – 1 credit**

*Prerequisite: 4106 Honors Precalculus, an AP application and recommendation by the Honors Precalculus teacher*

This college-level course is designed to provide students with foundations in differential and integral calculus and covers topics usually found in the first semester of college calculus. The content includes analysis of graphs and functions, limits of functions, derivatives and their applications and integrals and their applications. Students are required to take the College Board Advanced Placement Calculus Examination.

#### **4128 - Advanced Placement Calculus BC – 1 credit**

*Prerequisite: 4106 Honors Precalculus (85+), an AP application and recommendation by the Honors Precalculus teacher.*

This college-level course is designed to provide students with foundations in differential and integral calculus and covers topics usually found in the first two semesters of college calculus. The content includes: an extensive treatment of differential and integral calculus, power series, calculus in polar coordinates and introductory differential equations and vector calculus. Students are required to take the College Board Advanced Placement Calculus Examination.

#### **4138 - Advanced Placement Statistics – 1 credit**

*Prerequisite: 4104 Precalculus (95+), 4106 Honors Precalculus, OR Co-requisite: 4106 Honors Precalculus; an AP application and recommendation by the current math teacher.*

This college-level course is designed to provide the students with the major concepts and tools for collecting, analyzing and drawing conclusions from data. An introductory course in statistics is required for most college majors and this course is designed to fulfill that requirement. The content includes: descriptive statistics through data exploration, sampling and experimentation, exploring random phenomena using probability and simulation, and statistical inference to estimate population parameters and test hypotheses. Students are required to take the College Board Advanced Placement Statistics Examination.

## AP Addendum

As an applicant for this program, I realize the AP Art is a 6-point course and will require extensive work outside of class time. **A studio time of 50 minutes is provided during Mrs. Fergus' planning period and 7<sup>th</sup> period early dismissal. I also understand that a commitment of 5 to 9 hours each week of outside class work is required to enroll in the Advanced Placement Studio class (all 3 portfolio studies).**

If you are an applicant outside the Briarcrest Christian School system and you are completing this form, submit a portfolio for review consisting of **6-8** total pieces which show:

- Content unity
- Compositional clarity
- Intentional craftsmanship
- Full visual resolution

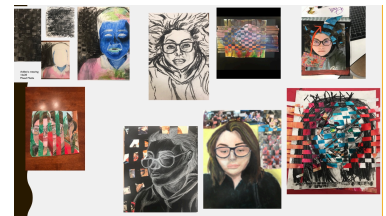
### Regarding Grading and Scoring of the AP Portfolio:

The Scholastic Art & Writing portfolio of eight pieces and a brief essay is required at the end of 1<sup>st</sup> semester. The assessment of the portfolio at this point in development, will correlate with possible Advanced Placement Portfolio scoring. If the portfolio of 8 works is completed with a sustained idea, skillful resolution, meaningful composition and visual growth then the portfolio will be scored at a 5 or 90 to a 100 for a grade. If the score is below an AP Portfolio Score of a 3 equivalent to less than the grade of a 69 or below, then the student will need to make decisions accordingly.

The scoring of the portfolio will relate literally with the class grade. Therefore, any student failing to work at a score level of 3 or above may drop down into a standard level class. In other words, the student falling behind at the end of 1st semester who wants to drop back to the Drawing/Painting Portfolio class may do so, without affecting their current class schedule. The grade will be 4/4 quality GPA points in this class, rather than a 6/4 quality points for the GPA. This student will not submit the AP Studio Portfolio, known as the AP Studio Exam. Students choosing this will be able to make art on a standard level, yet without Honors or AP credit. This reduction will not affect the NAHS standing of the student who continues to hold a 3.0 overall GPA.

### Attach a PowerPoint Slide Screen Shot of 12 of your best sketchbook pages and/or art works.

- Step 1: Take photos of your pages and art. CROP out the surroundings.  
Step 2: Open PowerPoint (not Google Slides). Drag the 12 pictures onto **ONE** slide. Resize them so all are visible.  
Step 3: Take a screen shot of your Slide. (Command-Shift-4)  
Step 4: Save the picture and the PowerPoint to your Google Drive. Label the slide with your name and AP Art Application. Make certain that all the work is only your own.  
Step 5: Attach the picture to the online application.



## Defining Intentions for AP Studio Courses

1. Below list at least 5 ideas, events, surroundings, issues, (personal or communal) etc. about which you have questions. The list may be bullets, questions or sentences.
2. Choose one of the above listed ideas, etc. Now list 5 nouns (Peoples, Places or Things) that could be visual subject matter in a study of the chosen issue, etc. As before, it may be a list, questions or sentences.
3. List 5 media with which you like to make visual work. Be specific.

## Defining Intentions for AP Studio Courses

4. List 3 artists you enjoy. Give a detailed reason for your admiration for each of them.
5. IMPORTANT: Write the definition of composition. What do you know about it?
6. Why do you think you can handle this rigorous and time-consuming course? Be as concise and forthright as possible.

## **Defining Intentions for AP Studio Courses**

Write a brief DAIJ essay below dealing with one piece of art by an artist that has influenced your ideas about art, your style of art making, and or your admiration for the way art is made.

### **Description/Analysis/Interpretation/Judgment-Thesis**

### **AP ART STATEMENT OF INTENT**

I have read the Advanced Placement Application information and commit my full support to my child's participation. I understand that meeting the eligibility requirement does not ensure admission to the course and that the decision of the selection committee will be final. Should my child be accepted and need to further their art making skills, my child may be required to continue to work in art outside the Briarcrest art classroom. **If my child is accepted to the program, I agree to support his/her participation.**

**In addition, I recognize that my child will have to maintain a GPA of 3.0 or better this year to remain in the program.**

I will ensure that my child has materials and art making time **4 or more hours a week.**

I will also commit my support to the Advanced Placement teacher by following their guidance regarding further study in order to ensure my students' successful completion of the course he/she has chosen.

---

Signature of Parent/Guardian

---

Date

# Briarcrest Christian High School

## AP Studio Art Portfolio Teacher Recommendation

(one teacher other than art teacher - the teacher should hand in to Mrs. Fergus)

Note: Please print or type all information.

STUDENT NAME: \_\_\_\_\_ TEACHER: \_\_\_\_\_

MIDDLE SCHOOL: \_\_\_\_\_ SUBJECT: \_\_\_\_\_

Please use the following rating scale when completing the descriptors for this student.

5=Exhibits this trait to an exceptional degree

4=Exhibits this trait consistently

3=Exhibits this trait frequently

2=Exhibits this trait occasionally

1=Exhibits this trait rarely

	5	4	3	2	1
Learns quickly with good retention					
Is a keen and alert observer					
Is sensitive to clock and calendar deadlines					
Works well in group settings					
Demonstrates strong skills in this subject area					
Is a self-starter					
Is rarely absent and always punctual					
Is highly motivated with a positive attitude about learning					
Is persistent and complete with regard to assignments/class work					
Is prepared for class					
Seeks assistance and tutorials when necessary					
Shows responsibility/dependability/honesty					
Shows initiative independent of assignment requirement					
Demonstrates acceptable classroom behavior conducive to learning					

TOTAL \_\_\_\_\_

Please check one: (should correspond to total above) Please **do not** mark recommend with reservations or do not recommend without giving a comment. Any comment will be helpful.

\_\_\_\_\_ I heartily recommend. (70-63)

\_\_\_\_\_ I recommend. (62-49)

\_\_\_\_\_ I recommend with reservations. (48-35)

\_\_\_\_\_ I do not recommend. (<35)

Name \_\_\_\_\_ School \_\_\_\_\_

Date \_\_\_\_\_ Interviewer \_\_\_\_\_ Score \_\_\_\_\_