COURSE REQUEST
INFORMATION FOR 20 – 21

APRIL, 2020

CHARACTER, INTEGRITY, EXCELLENCE
CIE  
Character, Integrity, and Excellence  
Cambridge International Examinations

IGCSE or Pre-AICE  
International General Certificate of Secondary Education

AICE AS/A  
Advanced International Certificate of Education  
AS and A are “levels,” and A is the upper/more difficult level

AGRICULTURE (HORTICULTURE/TURF)  
Part of the Career and Technical Education Department (CTE)

Project Lead the Way (PLTW)  
Part of the Career and Technical Education Department (CTE)
TIME AND SCHEDULE

- **Time:**
  - Family and friends?
  - Activities/commitments?

- **Requirements in your schedule:**
  - Four core
  - Health & PE I
  - Foreign Language – required for advanced diploma
  - Cambridge – one course must be a program course
  - Horticulture – Horticulture class
  - Project Lead the Way (PLTW) – EID
  - Advanced diploma: At most time for one elective…
  - Standard diploma: At most time for two electives…

Only so many hours in the day, and…
Only so much room in your schedule…
The next few slides make some comparisons between regular and IGCSE or Pre-AICE courses in the four core: English, math, science and social studies. We do NOT recommend you take four Cambridge courses (to include honors foreign language) your freshmen year. Remember the freshmen year is an acclimation year. We recommend you take one or two Cambridge courses in areas of interest. You may always add more Cambridge courses in other disciplines later in your high school career. In high school, teachers assign about 20 minutes, on average, of homework a night for regular courses, and more for Cambridge courses. You will attend four classes every day. You will need to balance your activities and manage your time!
ENGLISH 9 - GENERAL

ENGLISH 9

• Short stories – mainly read in class. Homework would be to answer the side questions in the book. Tests are usually in the form of multiple choice quizzes.

• Writings – one formal per quarter. Format is developed as the year progresses.

• Novels – 1-2 required for the year. Students assigned roughly 10-15 pages to read per night. Worksheets given to help with comprehension.

• Plays – 1 required, read in class with audio. We summarize each scene together. We also watch each act after reading it. Final test is multiple choice.

IGCSE ENGLISH 9

• Short stories – students are asked to read the story at home and annotate all personal comments, define unknown vocabulary and identify specific literary devices. Tests are short answer that show the student’s understanding of the deeper meanings presented by the author.

• Writing – typed formal writings at least every other week; must have proper formatting.

• Novels – 4-5 for the year. Students are assigned roughly 30-50 pages a night to read and annotate for personal comments, define unknown vocabulary, write chapter summaries, and identify specific literary devices.

• Plays – 2-3. Only Romeo and Juliet is solely read in class. The others are read in class and on own at home. Visual versions only happen if time permits. Final test is a written test.
Three Skeleton Key
George G. Toudouze

My most terrifying experience? Well, one does have a few in thirty-five years of service to the Lights, although it’s mostly monotonous routine work—keeping the light in

order, making out the reports.

When I was a young man, not very long in the service, there was an opening in a lighthouse newly built off the

cost of Guatemala, on a small rock twenty miles or so from

the mainland. The pay was high, so in order to reach the

sum I had set out to save before I married. I volunteered

for service in the new light.

Three Skeleton Key, the small rock on which the light

stood, bore a bad reputation. It earned its name from the

story of the three convicts who, escaping from Cayman

in a stolen dugout canoe, were wrecked on the rock during

the night, managed to escape the sea but eventually died

of hunger and thirst. They would be discovered, nothing

remained but three heaps of bones, picked clean by the

birds. The story was that the skeletons, gleaming with

phosphorescent light, danced over the small rock, screaming.

But there are many such stories, and I did not give the

noirs any thought. I signed up, boarded ship, and in a month I

was installed at the light.

Picture a grey, tapering cylinder, welded to the solid

black rock by iron rods and concrete, rising from a small

island twenty odd miles from land. It lay in the midst of

the sea, this island, a small, bare piece of stone, about

one hundred fifty feet long, perhaps forty wide. Small,

barely large enough for a man to walk about and stretch

his legs at low tide.

This is an advantage one doesn’t find in all lights, however, for some of them rise sheer from the waves, with

no room for one to move over within the light itself. Still,

on our island, one must be careful, for the rocks were

treacherously smooth. One mistake and down you

would fall into the sea—not that the risk of drowning was so great, but the waters about our island swarmed with huge sharks who kept an eternal patrol around the base of the light.

Still, it was a nice life there. We had enough provisions to

last months, in the event that the sea should become

too rough for the supply ship to reach us on schedule.

Three Skeleton Key dangerous. Circle the text that tells you.

Reading Check

Are the waters surrounding

Three Skeleton Key
dangerous? Circle the text that tells you.

Three Skeleton Key 405

**GEOMETRY**

- **Medians and Altitudes:**
  Classify $\overline{AC}$ in the following triangles as angle bisector, altitude, median, perpendicular bisector, or none.

- **Logic:**
  Using set notation, describe the shaded region of the following.

- **Distance Formula:**
  What are two ways we have learned to find the distance between two points?

- **Area:**
  A square and a rectangle have equal areas. The rectangle is 8 cm by 32 cm. What is the measure of one side of the square? What is the perimeter of the square?

**IGCSE GEOMETRY**

- **Medians and Altitudes:**
  Construct the medians and altitudes of the following triangle:

- **Logic:**
  If $R = \{2, 3, 4, \ldots, 10\}$, $A = \{1, 3, 5, \ldots, 15\}$, and $C = \{3, 6, 9\}$, then $n(A \cap C) =$

- **Distance Formula:**
  Derive the distance formula from the Pythagorean Theorem.

- **Area:**
  If the side of a square is $s$, show the square’s area is equal to half the product of its diagonals without using the fact that a square is a special case of rhombus.
Sequences and Series

Find the missing terms of the arithmetic sequence below:
3, _____, _____, _____, 44

A) Complete the table for Star 5, Star 7, and Star n.

<table>
<thead>
<tr>
<th>Number of lines</th>
<th>Star 1</th>
<th>Star 2</th>
<th>Star 3</th>
<th>Star 4</th>
<th>Star 5</th>
<th>Star 7</th>
<th>Star n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of dots</td>
<td>11</td>
<td>21</td>
<td>31</td>
<td>41</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Find the sum of the number of dots in
i) Star 10 and Star 11
ii) Star n and Star (n + 1)
iii) Star (n + 7) and Star (n + 8)
BIOLOGY - GENERAL

**BIOLOGY**

- Projects – each quarter biology students complete 1 project based on topics. It is guided with time in class to complete.

- Labs – Students complete multiple labs based on each unit of study. The labs are set up and directed by the instructor. Students are guided through the wrap up.

- Lecture – Lecture notes are provided and helps students learn how to listen and prepare to study.

- Test – 1 test per unit of study. Time is given for review and outlines/review guides are provided.

**IGCSE BIOLOGY**

- Projects – each quarter biology students complete 2 projects based on topics. It is guided but students are expected to complete this on their own time.

- Labs – Students complete multiple labs based on each unit of study. The labs are set up by the instructor. Students are expected to review information before lab begins and are responsible for formal lab write-ups.

- Lecture – Lecture notes are provided and helps students learn how to listen and prepare to study. On top of this, students are not always provided notes and will learn the skills of individual note taking and outline units of study.

- Test – 1 test per unit of study. Time may not be given in class for review and outlines/review guides are provided, but it is up to the student to study independently.
Following water from clouds to plants and back

Directions: Diagram how the water cycle and plants work together to move water through a system. Follow water from the clouds down to the ground and then how it moves through the roots up through the stem to the leaves and then out through the leaves back to the clouds. Make sure to show all the different parts necessary to make this occur.

Make sure to incorporate these words into your steps.

- Precipitation, Seepage, Water intake, Root hairs, Xylem, Phloem, Transpiration, Stomata, Osmosis, evaporation
WORLD HISTORY

WORLD HISTORY I

• SOL-based content
• Develop basic Social Studies skills (e.g. analysis, critical thinking, writing in content area)
• Nightly textbook reading for homework (30 minutes/night)
• In class projects and short written assignments

PRE-AICE WORLD HISTORY I

• Prepares students for Cambridge History exams taken in 10th/11th/12th grade
• 1-2 written assignments (essays, projects, etc.) per marking period
• SOL-based content covered in depth, plus additional content
• Longer nightly reading assignments (45-60 minutes) from varied sources (textbooks, scholarly articles, historical documents, etc.)
• Course moves at a faster pace
• Refines students’ analytical and critical thinking skills
• **Students must possess strong reading and writing skills**
• Who is Petrarch? What did he write?
• Who is Machiavelli? What ideas did he express in “The Prince?”

• Explain how the works of Petrarch and Machiavelli reflect Renaissance ideas.
HORTICULTURE & WORLD LANG

• Agriculture/Horticulture
  One entry level course—Horticulture

• World Languages
  Level II: courses are “general”
  Level III: the differences in rigor between general and IGCSE are similar to those delineated in the four core
ELECTIVES, GIFTED, SPED

- **Electives**
  - Art: art and photography
  - CTE: construction tech, technical drawing, business, and family and consumer science classes
  - English: journalism, yearbook, poetry
  - Music: choirs, orchestras, and bands

- **Gifted**
  - Our gifted program for freshmen is a pull-out program. Our teacher also collaborates and presents with other teachers.

- **SPED**
  - Special education students receive supports through various levels of support and settings: consult monitor, team-taught half, team-taught full, and self-contained settings.
FORMS SHARED

• Freshmen Scheduling Form
• Graduation requirements for those entering 9th grade beginning fall of 2019
• We recommend the “Ready to Go” pages in the course catalog

Please note there is a lot of valuable information in the course catalog. It can be found on the division web-site under Student → High School and Beyond.
FAQS

• Retaking a class
  If a student is currently taking a class (e.g., Spanish I or Algebra I), and want to retake the course their freshmen year, a form asking the grade they received this year be expunged must be submitted (please see page 10 of the division course catalog).

• Taking a course in summer school
  Whether or not students may take a course in summer school (e.g., HPE I) to open up an elective slot is up to the summer school administration. If you are interested, please contact your middle school counselor or a BDHS counselor about this option.
MEETING WITH COUNSELORS

The Brentsville counselors are monitoring their emails and Mr. Kline is monitoring and sharing the submissions to the form link. A list of requested courses will again be sent home in late May/early June. Students and parents will be given about two weeks to submit changes. This will also be the last opportunity to make changes.

Students not previously in the division will schedule classes when they enroll. Please email the registrar to set up an appointment. (Ms. Hagstrom, hagstrwm@pwcs.edu, Subject heading: Registration appointment)
CONTACTS

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