

# The Providence Country Day School Global Campus



## DUAL DIPLOMA PROGRAM FOR GLOBAL STUDENTS



Hudson Global Scholars



The Providence Country Day School

**GLOBAL CAMPUS**

# The US Dual Diploma Program Options for the Required 6 Credits

This catalog of course descriptions is to provide a basic overview of the courses that make up the 6 required credits to complete the PCDS Global US Dual High School Diploma program.

It is organized around a 2-year program where 1 credit is taken each of 3 Semesters per year:

1st Semester: Sep-Dec

2nd Semester: Jan-Apr

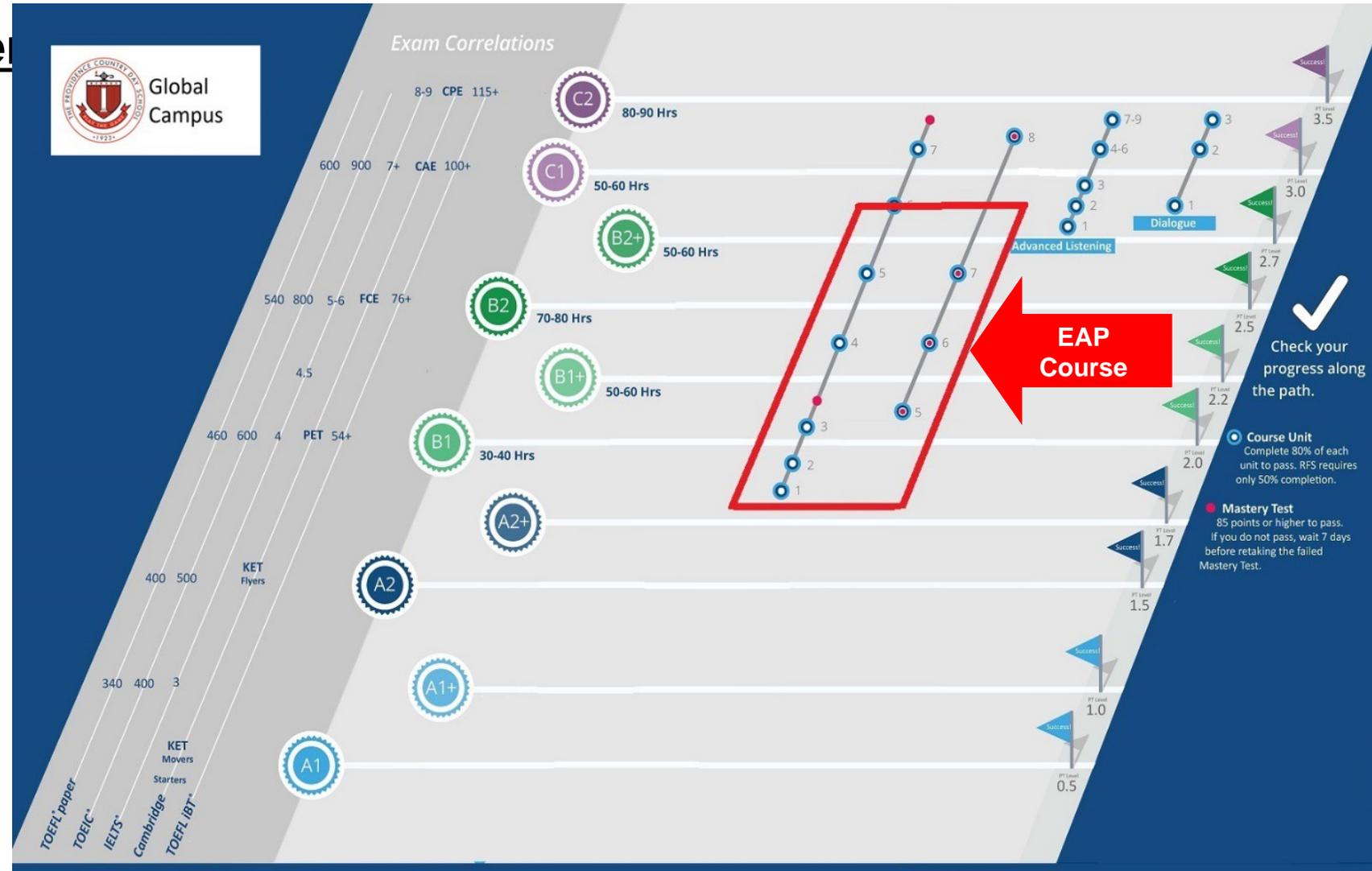
3rd Semester: May-Aug



## First Year: 1st Semester

### English for Academic Purposes (0.5)

The objective of this ½ credit EAP Course is to assist students to improve their English proficiency skills from their entry level of B1 to B2 and perhaps as high as C1 but for the purpose academic learning.





## **First Year: 1st Semester**

### **Art Appreciation (0.5)**

#### **Major Concepts**

- Elements of Art & Principles of Design
- Ancient Art
- Aegean, Greek, Etruscan, and Roman Art
- Medieval Art
- The Renaissance to Rococo
- Pre-modern Art
- Modern Art
- Modernism and Post-modernism

#### **Course Description**

What makes an artwork a masterpiece? Why do artists create art? What is the difference between Rococo and Art Nouveau? In this course, students will discover the answers to these questions and more. We examine the elements of art and principles of design and explore how artists have used these elements and principles in the creation of art for centuries.



## First Year: 2nd Semester

### **Renewable Energy (0.5)**

#### **Major Concepts**

- Renewable Energy and Sustainability: Overview
- Renewable Energy Options
- Assessing Renewable Energy Technologies
- The Future of Renewable Energy
- Aspects of Sustainability
- Sustainable Societies
- Biodiversity
- Smart Growth and the Built Environment

#### **Course Description**

The earth's population is growing rapidly, and we need to find new, innovative ways to ensure that we are able to provide for our global energy needs. Students will look at the reasons why sustainability is important, take a balanced and evidence-based look at climate change, and learn new ways that we can harness renewable resources.



## **First Year: 2nd Semester**

### **Marine Science (0.5)**

#### **Major Concepts**

- Humans and the Ocean
- Plankton, Plants, and Algae
- Animals of the Sea
- Habitats and Ecology
- Life at Extremes
- Intelligence in the Sea
- Futures in Marine Science

#### **Course Description**

About 70% of the Earth is covered by water. Even today, much of the world's oceans remain unexplored. Marine scientists make exciting new discoveries about marine life every day. In this course, students will discover the vast network of life that exists beneath the ocean's surface and study the impact that humans have on the oceans.



## **First Year: 3rd Semester**

### **Media & Communication (0.5)**

#### **Major Concepts**

- Introduction to Mass Media and Communication
- Print Media: Newspapers, Magazines, & Books
- Electronic Media: Radio, Movies, and Televisions
- The Internet & Social Media
- The Powerful Influence of Media
- Advertising and Public Relations
- Media Law and Regulations
- The Ethics of Media

#### **Course Description**

From banner ads to billboards, newspaper articles, and Facebook feeds, people are constantly sharing ideas. This course looks at the many facets of mass media. Students will learn how the media shapes every aspect of our lives. We examine the role of newspapers, books, magazines, radio, movies, television, and the growing influence of Facebook, YouTube, and Twitter.



## First Year: 3rd Semester

### **Music Appreciation (0.5)**

#### **Course Description**

Students will gain a thorough understanding of music by studying the elements of music, musical instruments, and music history, as well as music advocacy. Students will be introduced to the orchestra and composers from around the world. They will be required to be a composer, performer, instrument inventor, and advocate.

#### **Overview**

- The various elements of music each play an essential role in the production of music.
- The different instrument families each contain several unique characteristics.
- Music has radically developed, changed, and grown in a deliberate manner since the beginning of known music.
- Musical genres of the 20th and 21st century are very diverse and unique and music advocacy is essential to continue the development of new unique musical genres



## Second Year: 1st Semester

### Calculus (1.0)

#### Course Description

This Calculus course is designed with the intent for students to incorporate the concepts of all previous math courses and expand upon these concepts with the implementation of Limits. Emphasis is placed upon the multi-representational approach to calculus where problems and their solutions are explored and interpreted graphically, numerically, analytically and verbally. Students will also be required to explain their answers in written form and will be asked to compare their written response to the AP grading rubric and explain why they feel they should receive that grade. Students are required to use graphing calculators. These calculators will be used in a variety of ways including multi-representation of equations (graphs and tables) and also for conducting explorations with various functions and how different values change the look of the function.

#### Major Concepts

- Students should develop a deeper understanding of very small and very large numbers and a variety of ways to represent them.
- Representations should be used to model and interpret physical, social, and mathematical phenomena.
- Mathematical thinking should be communicated coherently and clearly to teachers, peers, and others.
- Students should be able to judge the meaning, utility, and reasonableness of the results of symbol manipulation, including those carried out by technology.
- Functions should be analyzed by investigating rates of change, intercepts, zeros, asymptotes, and local and global behavior.
- Students should be able to use the language of mathematics to express mathematical ideas incisively.
- The connection between derivatives, antiderivatives, and integrals.
- Theorems involving integrals including the Fundamental Theorem of Calculus and the Second Fundamental Theorem of Calculus.
- How to construct antiderivatives using graphs, numbers, and differential equations.
- Different types of functions require different methods of finding integrals
- When we can't find an exact integral we can use approximation we can find approximate integrals when there is not a finite interval
- Use integrals to compute volumes of irregular shapes.
- Use integrals to solve differential equations.
- Use integrals to solve real world exponential growth and decay problems.



## Second Year: 2nd Semester Language Arts I (1.0)

### Semester A

#### Major Concepts

- Reading skills and strategies
- Literary elements and devices
- Reading informational text
- Text structures
- Writing narratives and information
- Collaborative discussion
- Peer review
- Word attack skills

### Semester B

#### Major Concepts

- Literary forms
- Comparative literature
- Literary analysis
- Evaluating arguments
- Research process and skills
- Forms of media and multimedia

Required Novels (choose one per semester):

- Romeo and Juliet (Semester A)
- To Kill a Mockingbird (Semester B)
- Optional Novels (Choose 1 per Semester)
  - The Old Man and the Sea
  - House on Mango Street
  - Fahrenheit 451
  - The Odyssey
  - Ender's Game
  - Speak of Mice and Men

### Course Description

#### Semester A

English for grade 9 is an integrated curriculum. Each unit contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of and details and reasoning to support ideas. Speaking and listening lessons in Semester A emphasize collaborative discussion skills and peer review. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

#### Semester B

Like semester A, semester B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.



## Second Year: 3rd Semester

### **World History (1.0)**

#### **Semester A Major Concepts**

- Reading and analyzing history
- Early civilizations
- The first cities and empires
- Roots of the world's religions
- The Middle Ages
- The Age of Exploration
- The Reformation
- The Renaissance
- The Age of Reason
- The Enlightenment

#### **Semester B Major Concepts**

- The Scientific Revolution
- The Industrial Revolution
- Colonization and Imperialism
- 20th century political and social movements
- World Wars I and II
- The Cold War
- Modern independence movements
- Contemporary global conflicts
- Globalization

### **Course Description**

#### **Semester A**

World History begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Semester A covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. The second half of Semester A explores early intellectual, spiritual, and political movements and their impact on interactions among world cultures.

#### **Semester B**

Semester B applies the reading and analytical strategies introduced in Semester A to the events and movements that created the modern world. In the second semester, World History emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion as well as the impact of European colonization. Students are encouraged to make connections between World War I and II and events related to the Cold War and between 19th-century imperialism and modern independence movements.



## Alternatives

### **Psychology (1.0)**

#### **Semester A**

- The field of psychology covers a vast area to include therapy, education, psychological disorders, industry, and animal training.
- Psychologists use a variety of methods to gather data such as observations, experiments, survey, and tests.
- Different psychologists have different theories on how personalities are developed.
- Genetics, environment and culture can influence personality development.
- Development is a life long process that includes physical, social, language, cognitive, moral and gender.
- Some theorists believe that individuals must go through specific stages to reach their maximum development potential.
- Mental and physical aspects of consciousness are intertwined.
- Hypnosis, sleep and psychoactive drugs influence our state of conscious awareness.
- While there is no definitive purpose to dreams, there are many theories explaining their meanings or purposes.

#### **Semester B**

- Enduring Understandings of this course:
- Some researchers have suggested that intelligence is a single, general ability, while others believe that intelligence encompasses a range of aptitudes, skills and talents.
- Some researchers believe animals can think.
- What is behaviorism and how do behaviorists study learning?
- What are the principles of classical and operant conditioning and how do they affect our learning?
- Why people behave differently in groups than they would individually.
- How social norms and rules govern most of our behavior.
- Defining mental disorder is difficult.
- Psychological disorders consist of anxiety disorders, mood disorders, personality disorders, drug abuse & addiction, dissociative identity disorder and schizophrenia.



## Alternatives

### **Psychology (1.0) Page 2**

#### Course Description

#### **Semester A**

In Psychology A the student begins with a brief history of psychologists and their experimental methods. Next they examine personality theories. Then human development from the infant stage through adult stage is explored. Finally, the last part of the course is about consciousness: sleep, dreams, and conscious-altering substances. Students are encouraged to increase their own self-awareness as they move through the course.

#### **Semester B**

Students continue to learn about psychology. Students examine the nature of intelligence in humans and animals, including the origin of intelligence and how to measure it. They learn about learning with an emphasis on classical and operant conditioning. Students also investigate social psychology and psychological disorders. They demonstrate their understanding by completing projects in which they play roles like teacher, parent, and psychologist.



## Alternatives

### **Creative Writing (1.0)**

#### Course Description

##### **Semester A**

At the beginning of the semester, students consider the importance of word play exercises in improving their facility with language while building a compelling and creative writing style. Focusing on word nuances and precision, later lessons guide students to write in a variety of short modes—including poetry, song lyrics, prose poetry, short short stories, and creative nonfiction. There are several opportunities for peer review in this semester, during which students learn best practices for participating in writing workshops, and then revise their work using feedback from their peers.

- Word play
- Lyric and narrative poetry
- Prose poetry
- Creative nonfiction
- Writing communities
- Mixed art forms
- Writing workshops
- Collaboration
- Self-publishing

##### **Semester B**

This semester focuses on longer works of fiction: short stories, plays, and novels. Students learn basic techniques of plot and character development along with strategies for creating suspense and building a theme, and they have opportunities to write in several different genres. Lessons cover a few special topics as well, including graphic novels, animation, comedy, and improvisation. Students apply what they have learned about writing workshops and revising to the longer pieces of writing they create for this semester.

- Plays and screenplay
- Comedy writing
- Fiction genres
- Character-driven plots
- Roles of suspense, symbolism, and theme
- Newer forms of fiction
- Graphic fiction and other visual forms
- Planning a novel



## Alternatives

### **Graphic Design (0.5)**

#### **Major Concepts**

- Upon completion of this course, you will be able to:
- Show skills in lettering.
- Demonstrate techniques in layout design that include balance, margins, airspace, emphasis, and clarity.
- Solve assignment challenges with planning, practice, patience, and the use of techniques introduced in the course.
- Demonstrate awareness of art movements and artists throughout the history of design.
- Demonstrate good design principles with a focus on the composition of assignments.
- Demonstrate increased clarity and self-confidence in visual decision-making.
- Use increased awareness of visual elements in order to create a more successful design.
- Fill the role of a designer to enhance living by applying a developed sense of aesthetics and utility to the creation of a wide variety of images.
- Demonstrate visual literacy in discernment in the media of today.

#### **Course Description**

Graphic Design is an introduction to elements of design, spatial relationships, typography and imagery as they apply to practical visual solutions for self-promotion, resumes, logo design, Web design, and sequential systems. In this course, the student explores the basic foundations of design through a series of visual projects that explore the principles and elements of design. Students will work both with analog and digital media as they explore two-dimensional and three-dimensional design along with color theory. This course will help develop and explore a student's ability to communicate visually.

In each lesson students acquire new skills, which take some effort. Beyond fundamental skills are various levels of creativity. Each lesson provides room for a student to express the technical skill learned in his or her own creative way.

#### **Software Needed (Choose One)**

- Adobe Illustrator (there is a cost associated, Mac OS X, Windows)
- Adobe Photoshop (there is a cost associated, Mac OS X, Windows)
- GIMP (free downloadable, Mac OS X, Windows, GNU/Linux)
- Pixlr (free browser-based program, Mac OS X, Windows, GNU/Linux, Chrome OS)



## Alternatives

### **Other Core Courses (A+B=1.0 Cr.) Other Electives (mostly 0.5 cr.)**

- American Government
- American History A&B
- Civics
- Honors American Government
- Honors American History A&B
- Honors Economics
- Honors World History A&B
- World Geography and Cultures A&B
- Anatomy and Physiology A&B
- Biology A&B
- Chemistry A&B
- Earth Science A&B
- Honors Biology A&B
- Honors Chemistry A&B
- Honors Physics A&B
- Marine Science
- Paleontology
- Physical Science A&B
- Physics A&B
- Renewable Energy
- Space Exploration

- Accounting
- Arts Careers
- Basic Web Design
- Business Law
- Career Planning
- Computer Basics
- Digital Media
- Digital Photography
- Film and Television
- Financial Literacy
- Health Careers
- Intro to Business
- Intro to Java Programming
- Intro to Nursing A&B
- JavaScript
- Medicine
- Photojournalism
- Python Multiplayer Adventure