



Pasco High School
Cambridge Elective Course Descriptions 2016-2017

IGCSE LEVEL ELECTIVES:

Pre-AICE Design and Technology

Course Number: 0200455

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Learners beginning this course are not expected to have studied design and technology in a formal way previously.

Course Description: The Cambridge IGCSE Design and Technology syllabus enables learners to identify, consider and solve problems through creative thinking, planning and design, and by working with different media, materials and tools. Candidates gain technical and design awareness as a result, and develop skills such as initiative, resourcefulness, enquiry and ingenuity. They also develop the communication skills central to design making and evaluation. Cambridge IGCSE Design and Technology provides an ideal basis for further study and prepares learners for their future within a rapidly changing technological society.

Pre-AICE French Foreign Language 1

Course Number: 0701394

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates beginning this course are not expected to have studied French previously.

Course Description: The course encourages learners to develop lifelong skills, including:

- the ability to use a foreign language as a means of practical communication
- insight into the culture and civilisation of countries where the language is spoken
- a positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilisations
- techniques which can be applied to other areas of learning, such as analysis and memory skills
- a sound foundation for progression to employment or further study.

Pre-AICE French Foreign Language 2

Course Number: 0701396

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates must have taken the Cambridge IGCSE French 1 Course or the equivalent.

Course Description: The course encourages learners to develop lifelong skills, including:

- the ability to use a foreign language as a means of practical communication
- insight into the culture and civilisation of countries where the language is spoken
- a positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilisations
- techniques which can be applied to other areas of learning, such as analysis and memory skills
- a sound foundation for progression to employment or further study.

Pre-AICE Spanish Foreign Language 1

Course Number: 0708532

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates beginning this course are not expected to have studied Spanish previously.

Course Description: The course encourages learners to develop lifelong skills, including:

- the ability to use a foreign language as a means of practical communication
- insight into the culture and civilisation of countries where the language is spoken
- a positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilisations
- techniques which can be applied to other areas of learning, such as analysis and memory skills
- a sound foundation for progression to employment or further study.

Pre-AICE Spanish Foreign Language 2

Course Number: 0708534

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates must have taken the Cambridge IGCSE Spanish 1 Course or the equivalent.

Course Description: The course encourages learners to develop lifelong skills, including:

- the ability to use a foreign language as a means of practical communication
- insight into the culture and civilisation of countries where the language is spoken
- a positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilisations
- techniques which can be applied to other areas of learning, such as analysis and memory skills
- a sound foundation for progression to employment or further study.

Pre-AICE Spanish Foreign Language 3

Course Number: 0708536

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates must have taken the Cambridge IGCSE Spanish 2 Course or the equivalent.

Course Description:

The course encourages learners to develop lifelong skills, including:

- the ability to use a foreign language as a means of practical communication
- insight into the culture and civilisation of countries where the language is spoken
- a positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilisations
- techniques which can be applied to other areas of learning, such as analysis and memory skills
- a sound foundation for progression to employment or further study.

AICE LEVEL ELECTIVES:

AICE Art & Design

Course Number: 0101370

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that candidates who are beginning this course should have previously completed an Art course.

Course Description: Successful candidates gain lifelong skills, including:

- communication skills, especially the ability to communicate concepts and feelings;
- how to record from direct observation and personal experience;
- the ability and confidence to experiment, be innovative, intuitive and imaginative;
- the language and technical terms used in art and design;
- research and evaluation skills;
- an appreciation of practical design problems and how to solve these.

AICE Biology

Course Number: 2000321

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that candidates who are beginning this course should have previously completed a Cambridge IGCSE course, or the equivalent, in Biology or in Coordinated Science. 10th Grade students interested in this course would take IGCSE Chemistry simultaneously.

Course Description: Candidates will gain valuable lifelong skills including:

- Cells as the units of life
- Biochemical processes
- DNA, the molecule of heredity
- Natural selection



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- Organisms in their environment
- Observation and experiment

AICE Business

Course Number: 2102324

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates beginning this course are not expected to have studied business previously.

Course Description: Cambridge learners will develop:

- the capacity to analyze characteristics and activities of business organizations and how they respond to the changing demands of their environments
- an understanding of how effective managers and leaders develop successful organizations in terms of customer focus and the products/services they offer
- the opportunity to reflect on how successful business organizations engage in financial and accounting practices to maximize value for stakeholders value
- development of knowledge that relates to strategic planning and decision-making to ensure business survival, change, and sustainable success
- a solid foundation for further study.

AICE Chemistry

Course Number: 2003371

Grade Level: 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that candidates who are beginning this course should have previously completed a Cambridge IGCSE course, or the equivalent, in Chemistry or in Coordinated Science.

Course Description: Candidates will gain valuable lifelong skills including:

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| • Atoms and forces | • Patterns in chemical behavior and reactions |
| • Experiments and evidence | • Chemical bonds |
| | • Energy changes |

AICE Design & Technology

Course Number: 0200460

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that candidates who are beginning this course should have previously completed a Cambridge IGCSE course in Design and Technology or the equivalent.

Course Description: Through their studies, candidates will:

- develop an awareness of the significance of design and technology to society
- learn more about production processes and industrial practices

- develop critical evaluation skills which they can employ in a variety of technical, aesthetic, economic, environmental, social and cultural contexts.

As a result, candidates will also become discerning consumers of design and technology, able to make informed choices.

AICE Environmental Management

Course Number: 2001381

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates who are beginning this course should have completed IGCSE Biology and IGCSE Chemistry or the equivalent. 10th Grade students interested in this course would take IGCSE Chemistry simultaneously.

Course Description: Through following this syllabus, candidates should:

- develop a knowledge of the Earth's natural systems and the effects of human activity on these systems
- be challenged to think about important environmental problems which face the world today
- understand that solutions to environmental issues are not easy to find
- recognize that the environment is an important social and political issue
- understand that while environmental issues can be debated by government, non-government and scientific organizations, there is an important role for individuals in thinking about these issues and in considering solutions.

AICE Geography

Course Number: 2103410

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that candidates who are beginning this course should have previously completed a Cambridge IGCSE course in World History or be taking it simultaneously.

Course Description: Successful candidates gain lifelong skills, including:

- an appreciation of the need for understanding, respect and co-operation in conserving the environment and improving the quality of life both at a global scale and within the context of different cultural settings
- an awareness of the usefulness of geographical analysis to understand and solve contemporary human and environmental problems
- a sense of relative location, including an appreciation of the complexity and variety of natural and human environments
- an understanding of the principal processes operating within Physical and Human Geography
- an understanding of the causes and effects of change on the natural and human environments
- an awareness of the nature, value, limitations and importance of different approaches to analysis and explanation in geography



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- a concern for accuracy and objectivity in collecting, recording, processing, analysing, interpreting and reporting data in a spatial context
- the ability to handle and evaluate different types and sources of information
- the skills to think logically, and to present an ordered and coherent argument in a variety of ways
- an excellent foundation for studies beyond Cambridge International A Level in Geography, in further or higher education, and for professional courses.

AICE Global Perspectives

Course Number: 1700364

Grade Level: 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that learners who are beginning this course have attained communication and literacy skills at a level equivalent to IGCSE Grade C in English.

Course Description: Cambridge International Global Perspectives & Research encourages critical and creative thinking, with communication an important culminating feature of the process. By taking forward the emphasis on an interdisciplinary, independent and reflective approach, and by building on an awareness of the issues involved in setting up a research proposal, identifying an appropriate question, and undertaking a literature review or its equivalent, learners are well placed to make a successful transition to higher education, employment and lifelong learning.

AICE Mathematics-Probability & Statistics

Course Number: 1202362

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

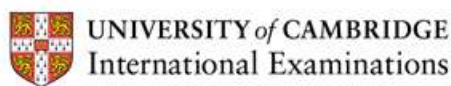
Prior Learning: We recommend that learners who are beginning this course have completed Algebra 2 honors successfully.

Course Description: Cambridge International AS and A Level Mathematics is accepted by universities and employers as proof of mathematical knowledge and understanding. Successful candidates gain lifelong skills, including:

- a deeper understanding of mathematical principles
- the further development of mathematical skills including the use of applications of mathematics in the context of everyday situations and in other subjects that they may be studying
- the ability to analyze problems logically, recognizing when and how a situation may be represented mathematically
- the use of mathematics as a means of communication
- a solid foundation for further study.

AICE Psychology

Course Number: 2107360



Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates beginning this course are not expected to have studied Psychology previously.

Course Description: This syllabus aims to encourage an interest in and appreciation of psychology through an exploration of the ways in which psychology is conducted. This exploration includes:

- a review of a number of important research studies
- an opportunity to look at the ways in which psychology has been applied.

The syllabus uses a wide variety of assessment techniques that will allow students to show what they know, understand and are able to do. The emphasis is on the development of psychological skills as well as the learning of psychological knowledge.

AICE Spanish Language

Course Number: 0708538

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that candidates who are beginning this course should have previously completed a Cambridge IGCSE Spanish 3 course or the equivalent.

Course Description: Cambridge International AS and A Levels in languages other than English are accepted by universities and employers as proof of linguistic ability and understanding. Successful language students gain lifelong skills, including:

- the ability to communicate confidently and clearly in the target language
- a sound understanding of the nature of language and language study, and of the skills and abilities required for further study, work and leisure
- insight into the culture and contemporary society of countries where the language is spoken
- better integration into communities where the language is spoken
- positive attitudes towards language learning, towards the speakers of other languages, and towards other cultures and societies
- skills which can be used in other areas of learning, such as analysis and memory skills.

AICE Thinking Skills 1

Course Number: 1700372

Grade Level: 9, 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: Candidates beginning this course are not expected to have studied Thinking Skills previously.

Course Description: Thinking Skills develops a specific set of intellectual skills, independent of subject content. It reflects the need voiced by universities and employers for more mature and sophisticated ways of thinking. The Thinking Skills syllabus also enables students to approach their other subjects with an improved ability to understand, analyse and resolve problems. As a result, students find the course of great benefit when preparing

for higher education and for a wide range of careers, including law, scientific research, social science, journalism, medicine, business, accounting and engineering. As a curriculum subject, Thinking Skills offers students an excellent opportunity to express themselves freely and openly. The Thinking Skills syllabus encourages free and open debate, critical and investigative thinking, and informed and disciplined reasoning.

AICE U.S. History

Course Number: 2100500

Grade Level: 10, 11, 12

Course Length: Year

Credit: 1.0

Prior Learning: We recommend that candidates who are beginning this course should have previously completed a Cambridge IGCSE course in History or the equivalent.

Course Description: Candidates will gain valuable lifelong skills including:

- assessing different interpretations of an argument
- formulating their own ideas about a subject
- presenting clear, logical arguments
- evaluating historical evidence
- developing an understanding of historical concepts such as cause and effect, similarity and difference and continuity and change