

Syllabus Descriptions

GRADE 9

English Language

Pre-AICE, Course 0500

This course enables learners to communicate clearly, accurately and effectively in both speech and writing. Learners use a wide range of vocabulary, and the correct grammar, spelling, and punctuation. Students learn how to employ a wide range of written forms for a variety of purposes, develop a personal style and an awareness of the audience. Learners are also encouraged to read widely, both for their own enjoyment and to further their awareness of the ways in which English can be used. Class skills include synthesis, inference, and the ability to order facts and present opinions effectively.

Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-english-first-language-0500/>

Mathematics – Year 1

AICE, Course 9709

Cambridge International AS and A Level Mathematics build on the skills acquired at Cambridge IGCSE (or equivalent) level. The topics of study during year 9 are coordinate geometry, exponent and root properties, functions and their graphs, quadratics, an introduction to differentiation, arithmetic and geometric sequences, the binomial theorem, beginning trigonometry, and an introduction to integration.

Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-mathematics-9709/>

Combined Science

Pre-AICE, Course 0653

Cambridge IGCSE Combined Sciences gives learners the opportunity to study Biology and Chemistry, each covered in separate syllabus sections. Learners gain an understanding of the basic principles of each subject through a mix of theoretical and practical studies, while also developing an understanding of the scientific skills essential for further study. They learn how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment. As well as focusing on the individual sciences, the syllabus helps learners to understand the technological world in which they live, and take an informed interest in science and scientific developments. Further information about this course can be found at:

<https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-science-combined-0653/>

History

Pre-AICE, Course 0470

The Cambridge IGCSE History syllabus investigates some of the major international issues of the nineteenth and twentieth centuries, analyzing the history of particular regions in more depth. The emphasis is on both historical knowledge and on the skills required for historical research. Learners develop an understanding of the nature of cause and effect, continuity and change, similarity and difference and find out how to use and understand historical evidence as part of their studies. Cambridge IGCSE History will stimulate any learner already interested in the past, providing a basis for further study, encouraging a lifelong interest in the subject. Both coursework and non-coursework options are available. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-history-0470/>

GRADE 10

English Language

AICE, Course 9093 (AS Level)

Cambridge International AS Level English Language gives learners the opportunity to study English language and its use in contemporary communication. It aims to encourage a critical response to texts in a range of forms, styles and contexts, and to promote skills of communication, reading, research and analysis. Through their study, learners develop an ability to read and analyze material, gaining further knowledge and understanding of English language features and issues. They also develop an ability to write clearly, accurately, creatively and effectively for different purposes and audiences. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-english-language-as-and-a-level-from-2014-9093/>

Mathematics – Year 2

AICE, Course 9709 (AS Level)

This course is a continuation of Pure Mathematics – Year 1. At the end of this course, students will sit for two papers: Paper 1 - Pure Mathematics 1 and Paper 5 – Probability and Statistics.

Topics of study for the completion of AS level are: logarithmic and exponential functions, trigonometry, differentiation, integration, numerical solution of equations, and advanced algebra. The topics for Probability and Statistics are: representation of data, permutations and combinations, probability, discrete random variables, and the normal distribution. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-mathematics-9709/>

JUANITA HIGH SCHOOL

Cambridge Program

Physics

Pre-AICE, Course 0625

The Cambridge IGCSE Physics syllabus helps learners to understand the technological world in which they live, and develop an informed interest in science and scientific initiatives. They learn about the basic principles of Physics through a mix of theoretical and practical studies. Learners also develop an understanding of the scientific skills essential for further study at Cambridge International A Level, skills which are useful in everyday life. As they progress, learners gain an understanding of how science is studied and practiced, and become aware that the results of scientific research can have both positive and negative effects on individuals, communities and the environment. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-igcse-physics-0625/>

Global Perspectives

AICE, Course 9239 (AS Level)

Cambridge International AS Level Global Perspectives prepares learners for positive engagement with the rapidly changing world. Learners broaden their outlook through the critical analysis of, and reflection on, issues of global significance. The Cambridge International AS Level Global Perspectives syllabus is based on skills rather than on specific content. Learners develop research, thinking, reasoning and communication skills by following an approach to analyzing and evaluating arguments and perspectives called the Critical Path. The skills gained through study of Cambridge International AS Level Global Perspectives enable students to meet the demands of twenty first century learning and make a successful transition to study in higher education.

Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-global-perspectives-and-research-9239/>

GRADE 11

English Literature

AICE, Course 9695 (AS Level)

Learners following the Cambridge International AS and A Level English syllabus study a range of texts in the three main forms: prose, poetry and drama. Set texts are offered from a wide range of different periods and cultures. Learners develop skills of reading and analysis of texts, and are encouraged to undertake wider reading to aid understanding of the texts studied. They learn skills of effective and appropriate communication including the ability to discuss the critical context of texts. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-english-literature-9695/>

JUANITA HIGH SCHOOL

Cambridge Program

Mathematics – Year 3

AICE, Course 9709 (A Level)

This course is a continuation of Pure Mathematics – Year 2. At the end of this course, students will sit for two papers: Paper 3 – Pure Mathematics 3 and Paper 4 – Mechanics.

Topics of study for this A Level course include a more advanced study of AS Level concepts. In addition, learners will also cover vectors, differential equations, and complex numbers. For Mechanics, the topics covered are: forces and equilibrium, kinematics of motion in a straight line, momentum, Newton’s laws of motion, and energy, work, and power. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-mathematics-9709/>

Chemistry

AICE, Course 9701 (AS/A Level)

Cambridge International AS and A Level Chemistry builds on the skills acquired in Combined Science. The syllabus includes the main theoretical concepts which are fundamental to the subject, a section on some current applications of chemistry, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination. The emphasis throughout is on the understanding of concepts and the application of chemistry ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. <https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-chemistry-9701/>

History: United States (with Civics): 1820-1941

AICE, Course 9489 (AS Level)

Cambridge International AS and A Level History is a flexible and wide-ranging syllabus covering modern history in the nineteenth and twentieth centuries. The syllabus builds upon skills gained at Cambridge IGCSE and develops lifelong skills including understanding issues and themes within a historical period.

The emphasis is again on both historical knowledge and on the skills required for historical research. Learners develop an understanding of cause and effect, continuity and change, similarity and difference, and use historical evidence as part of their studies.

The Grade 11 course will cover such topics as The origins of the Civil War, 1820–61, Civil War and Reconstruction, 1861–77 , The Gilded Age and Progressive Era, 1870s to 1920 , The Great Crash, The Great Depression and the New Deal policies, 1920–41.

Further information about this course may be found at:

<https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-history-9489/>

Grade 12

English Literature

AICE, Course 9695 (A Level)

Learners following the Cambridge International AS and A Level English syllabus study a range of texts in the three main forms: prose, poetry and drama. Set texts are offered from a wide range of different periods and cultures. Learners develop skills of reading and analysis of texts, and are encouraged to undertake wider reading to aid understanding of the texts studied. They learn skills of effective and appropriate communication including the ability to discuss the critical context of texts. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-english-literature-9695/>

Biology

AICE, Course 9700 (AS/A Level)

Cambridge International AS and A Level Biology builds on the skills acquired in Combined Science. The syllabus includes the main theoretical concepts which are fundamental to the subject, current applications of biology, and a strong emphasis on advanced practical skills. Practical skills are assessed in a timetabled practical examination. The emphasis is on the understanding of concepts and the application of biology ideas in novel contexts as well as on the acquisition of knowledge. The course encourages creative thinking and problem-solving skills which are transferable to any future career path. Cambridge International AS and A Level Biology is ideal for learners who want to study biology or a wide variety of related subjects at university or to follow a career in science. Further information about this course may be found at:

<http://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-biology-9700/>

History: US and Cold War History: 1944-1992

AICE, Course 9489 (A Level)

Cambridge International A Level History is a flexible and wide-ranging syllabus covering modern history in the nineteenth and twentieth centuries. The syllabus builds upon skills gained in previous history courses and develops lifelong skills including understanding issues and themes within a historical period.

The emphasis is again on both historical knowledge and on the skills required for historical research. Learners develop an understanding of cause and effect, continuity and change, similarity and difference, and use historical evidence as part of their studies.

The Grade 12 course includes topics such as the origin of the First World War, the Holocaust, and the origins and development of the Cold War, Civil Rights, and social and political topics of the 1950's – 1992. Further information about this course may be found at:

<https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-history-9489/>