

Schedule

The course is scheduled on every Friday 4:30pm - 6:30pm or Saturday from 10:30am - 12:30pm / 3:30pm - 5:30pm.

Module	Date		Fee
	Friday	Saturday	
Module 1: Programming Basics (I)	2021 Nov 05, 12, 19, 26, Dec 03, 10	2021 Nov 06, 13, 20, 27 Dec 04, 11	6 lessons \$5,400
Programming Basics (II)	2021 Dec 17, 24, 31, 2022 Jan 07, 14, 21	2021 Dec 18, 25, 2022 Jan 01, 08, 15, 22	6 lessons \$5,400
Module 2: Algorithm Design & Problem-solving (I)	2022 Jan 28, Feb 04, 11, 18, 25 Mar 04	2022 Jan 29, Feb 05, 12, 19, 26 Mar 05	6 lessons \$5,400
Algorithm Design & Problem-solving (II)	2022 Mar 11, 18, 25, Apr 01, 08, 15	2022 Mar 12, 19, 26, Apr 02, 09, 16	6 lessons \$5,400
Module 1 & Module 2 Practical & Written Test : Date & Time to be confirmed			\$500
Module 3: Computer Systems & Organisations	2022 Apr 22, 29, May 06, 13, 20, 27, Jun 03, 10, 17, 24	2022 Apr 23, 30, May 07, 14, 21, 28, Jun 04, 11, 18, 25	10 lessons \$9,000
Module 4: Databases & Communication Technologies (I)	2022 Jul 01, 08, 15, 22, 29 Aug 05, 12	2022 Jul 02, 09, 16, 23, 30 Aug 06, 13	7 lessons \$6,300
Databases & Communication Technologies (II)	2022 Aug 19, 26, Sep 02, 09, 16, 23, 30	2022 Aug 20, 27, Sep 03, 10, 17, 24, Oct 01	7 lessons \$6,300
Module 3 & Module 4 Written Test : Date & Time to be confirmed			\$500
Module 5: Advanced Problem Solving Methods (I)	2022 Oct 07, 14, 21, 28, Nov 04, 11, 18, 25	2022 Oct 08, 15, 22, 29, Nov 05, 12, 19, 26	8 lessons \$7,200
Advanced Problem Solving Methods (II)	2022 Dec 02, 09, 16, 23, 30 2023 Jan 06, 13, 20	2022 Dec 03, 10, 17, 24, 31 2023 Jan 07, 14, 21	8 lessons \$7,200
Module 6: Programming Paradigms	2023 Jan 27, Feb 03, 10, 17, 24, Mar 03, 10, 17, 24, 31	2023 Jan 28, Feb 04, 11, 18, 25, Mar 04, 11, 18, 25, Apr 01	10 lessons \$9,000
Module 5 & Module 6 Practical & Written Test : Date & Time to be confirmed			\$500
Module 7: Communication Technologies & Security	2023 Apr 07, 14, 21, 28, May 05, 12, 19, 26, Jun 02, 09	2023 Apr 08, 15, 22, 29, May 06, 13, 20, 27, Jun 03, 10	10 lessons \$9,000
Module 8: System Software & Artificial Intelligence (I)	2023 Jun 16, 23, 30, Jul 07, 14, 21	2023 Jun 17, 24, Jul 01, 08, 15, 22	6 lessons \$5,400
System Software & Artificial Intelligence (II)	2023 Jul 28, Aug 04, 11, 18, 25, Sep 01	2023 Jul 29, Aug 05, 12, 19, 26, Sep 02	6 lessons \$5,400
Module 7 & Module 8 Written Test : Date & Time to be confirmed			\$500
AS Examination For the student who has completed module 1 - module 4 May - Jun 2023 (details will be announced later)			
A2 Examination For the student who has completed module 1 - module 8 May - Jun 2024 (Details will be announced later)			

Remarks:

1. Full payment should be made one week before the commencement date of each module.
2. Any make up class other than the scheduled time will require \$200 administration fee.
3. No class on public holiday, make-up class will be arranged.
4. A course book will be chosen for student to study, student can buy the book through Futurekids or from other online bookshop.
5. Enhancement courses and mock examinations will be held before the examination for students to re-enforce their knowledge in each module covered and familiarise the examination patterns. Details of schedule will be announced later.
6. Price are subject to change in due course, details will be announced one month before the module begins.



Cambridge International Advanced Subsidiary & Advanced Levels - Computer Science (9618)

Cambridge International Advanced Level is one of the most recognised qualifications around the world. For over 50 years, A Levels have been accepted as proof of academic ability for entry to universities and institutes of higher education. A Levels are also important to employers who frequently demand A Levels as a condition of job entry.

Computer science is the study of the foundational principles and practices of computation and computational thinking and their application in the design and development of computer systems. This syllabus aims to encourage the development of computational thinking, that is thinking about what can be computed and how by the use of abstraction and decomposition.

Cambridge
International
A Level

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Introduction

This syllabus provides a general understanding and perspective of the development of computer technology and systems, which will inform their decisions and support their participation in an increasingly technologically dependent society; It also provides the necessary skills and knowledge to seek employment in areas that use computer science; Students' knowledge and understanding of computer science can be developed through entry to higher education, where this qualification will provide a useful foundation for further study of computer science or more specialist aspects of computer science.

Scheme of Assessment

Candidates may choose to:

- ◇ take Papers 1, 2, 3 and 4 in the same examination series, leading to the full Cambridge International A Level.
- ◇ follow a staged assessment route by taking Papers 1 and 2 (for the AS Level qualification) in one series, then Papers 3 and 4 (for the full Cambridge International A Level) in a later series.
- ◇ take Papers 1 and 2 only (for the AS Level qualification).

ADVANCED SUBSIDIARY LEVEL (AS Level)

Paper	Type	Duration	Marks	Weight
Paper 1 Theory Fundamentals	Written	1 hr 30 mins	75	25%
Paper 2 Fundamental Problem-solving & Programming Skills	Written	2 hrs	75	25%

ADVANCED LEVEL (A Level)

In addition to Papers 1 and 2.

Paper	Type	Duration	Mark	Weight
Paper 3 Advanced Theory	Written	1 hr 30 mins	75	25%
Paper 4 Practical	Practical	2 hrs 30 mins	75	25%

All 4 papers will take place at FUTUREKIDS Computer Learning Center, by means of a CIE-set assessments, under controlled examination conditions. Paper 1, 2 and 3 are written papers. Candidates answer all questions. Paper 4 is a practical paper. Candidates answer all questions on a computer without internet or email facility.

Examinations Schedule

International A and AS Level examination sessions occur twice a year, in June and November, with results issued in August and January respectively.

Grading System

Subjects are graded A* through to E. Grade A* is awarded for the highest level of achievement, grade E for the lowest.

Recognition

International A Level and AS Level have widespread international recognition as educational qualifications. This recognition is because:

- ◇ International A and AS Level qualifications are recognised by universities as equivalent in value to UK A and AS Levels
- ◇ Good grades at A and AS Level can result in one full year of advanced standing or credit at universities in the USA and Canada
- ◇ Good A and AS Level grades are vital for admission to all the world's major English-speaking universities and many non-English-speaking universities

Curriculum Content

The curriculum content is set out in twenty two interrelated sections. These sections should be read as an integrated whole and not as a progression. The sections are as follows:

At AS Level (Theoretical)

1. Information representation
2. Communication
3. Hardware
4. Processor fundamentals
5. System software
6. Security, privacy and data integrity
7. Ethics and ownership
8. Database

At AS Level (Programming Skills)

9. Algorithm design and problem-solving
10. Data type and structures
11. Programming
12. Software development

At A2 Level (Theoretical)

13. Data representation
14. Communication and Internet technologies
15. Hardware and virtual machine
16. System software
17. Security
18. Artificial Intelligence (AI)

At A2 Level (Programming Skills)

19. Computational thinking and problem-solving
20. Further programming

Course Outline

Module	Section(s) Covered	Study Hours
AS Level		
Module 1: Programming Basics	9, 10, 11	24 (12 Lessons)
Module 2: Algorithm Design & Problem-solving	11, 12	24 (12 Lessons)
Module 3: Computer Systems & Organisations	1, 3, 4, 5	20 (10 Lessons)
Module 4: Databases & Communication Technologies	2, 6, 7, 8	28 (14 Lessons)
A2 Level (A Level)		
Module 5: Advanced Problem Solving Methods	13, 18, 19	32 (16 Lessons)
Module 6: Programming Paradigms	19, 20	20 (10 Lessons)
Module 7: Communication Technologies & Security	13, 14, 17	20 (10 Lessons)
Module 8: System Software & Artificial Intelligence	15, 16, 18	24 (12 Lessons)

Prerequisite

Applicants should:

- ◇ Either, have grade B or above in Information Communication Technology at IGCSE;
- ◇ Or, have grade C or above in Computer Science at IGCSE;
- ◇ Or, have 4 point or above in Information Communication Technology (Software module) at HKDSE;
- ◇ Or, pass a written and practical entry test.

Further Enquiries

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