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| **SPECIAL COURSES OFFERED ONLY BY IB/CAT PROGRAMS** |

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| **Q\*Advanced Placement - Computer Science A (IB and CAT)** |
| **Course #** | 02003205,6 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | Algebra II, competence in written communications, Programming I |
| **Credit** | 1 |
| This course follows the course description and covers the content specified by the College Board. Specified language is JAVA. |
| **Students are required to take the Advanced Placement examination.** |

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| **Q\*Computer Studies I - IB**  |
| **Course #** | 02008005,02008006 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | Acceptance into IB  |
| **Credit** | 1 |
| This course introduces students to advanced computer programming. The major emphasis is to acquire skills in using the computer to solve problems in such areas as mathematics, science and business. This course will place a major emphasis in developing algorithms, applying recursive techniques for some types of problems, comparing and contrasting computer language, and comparing and contrasting computer systems. |

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| **Q\*Computer Studies II - IB** |
| **Course #** | 02008105,02008106 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | Computer Studies I - IB  |
| **Credit** | 1 |
| This in-depth course extends the development of logical processes in problem solving and sound programming practices using a high-level programming language. Other topics include analog and digital devices, data storage, internal and external computer hardware, programming errors, recursion, data types and structures, concepts of modular programming and an understanding of the role of computers in society, including their applications and limitations. (Content includes that specified by the International Baccalaureate Computer Studies Program. |

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| **Q\* Information Technology in a Global Society IB-1** |
| **Course #** | 02008905 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | IB |
| **Credit** | 1 |
| This course enables students to develop the ability to explore and adapt new technological advances as tools for analysis, integrating goal 3 of the Student Performance Standards. The interaction between information, technology, and society is explored and integrated into various disciplines. Content includes systematic problem solving, analyzing and processing using modern information systems. Other topics include identification and use of information tools, the global impact of the information technology and understanding ethical issues in society. |

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| **Q\* Information Technology in a Global Society IB-2** |
| **Course #** | 02009005 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | Information Technology in Global Society IB-1 |
| **Credit** | 1 |
| This course enables the student to evaluate the impact of information technology on individuals and society. It explores the advantages and disadvantages of the use of digitized information at the local and global level. The student will develop an understanding of the potential of networking that is a regular part of a constantly changing society. The content includes the use of new technologies as methods to enhance and expand our knowledge of the world and to meet the needs of society through the exploration and adaptation of new technological advances. This course will promote an awareness of the social significance of information technology for individuals, communities and organizations. |

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| **Explanation of Symbols** |
| **Symbol** | **Explanation** |
| **\*** | Course meets Practical Arts graduation requirement. |
| **Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif** | The Pinellas County School (PCS) virtual symbol indicates this course is available in a Pinellas County School virtual learning environment. All Pinellas County School Virtual School (PVS) courses are aligned with the Next Generation Sunshine State Standards (NGSSS) and in the Board approved MS and HS Course Code Directories.  |