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| **CIS-110\_2006SP** | **Introduction to Computers** | **CIS-110** |

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| CIS Course ID | S21058 |
| Effective Term | Spring 2006 |
| End Term |  |

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| Class | 2 | Lab | 2 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. |

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| Competencies |
| 1. Identify the basic elements required in a computer system. 2. Produce electronic documents using various software applications. 3. Illustrate the role of the computer for personal and professional uses. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| **CTI-110\_2009FA** | **Web, Pgm, & Db Foundation** | **CTI-110** |

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| CIS Course ID | S22510 |
| Effective Term | Fall 2009 |
| End Term |  |

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| Class | 2 | Lab | 2 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table. |

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| Competencies |
| 1. Apply basic principles of programming logic. 2. Create a simple website with mark-up tools. 3. Create a simple database table. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| **CTI-120\_2009FA** | **Network & Sec Foundation** | **CTI-120** |

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| CIS Course ID | S22511 |
| Effective Term | Fall 2009 |
| End Term |  |

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| Class | 2 | Lab | 2 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols. |

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| Competencies |
| 1. Perform basic calculations necessary for network operations. 2. Identify the components of local and wide area networks. 3. Identify security risks to a networked information system. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| **CIS-115\_2020FA** | **Intro to Prog & Logic** | **CIS-115** |

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| CIS Course ID | S25440 |
| Effective Term | Fall 2020 |
| End Term |  |

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| Class | 2 | Lab | 3 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to use top-down algorithm design and implement algorithmic solutions in a programming language. |

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| Competencies |
| 1. Apply control structures 2. Apply top-down algorithmic design. 3. Implement algorithmic solutions in a programming language. |

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| State Prerequisites | Take One Set: Set 1: DMA-010, DMA-020, DMA-030, and DMA-040 Set 2: DMA-025 and DMA-040  Set 3: MAT-121 Set 4: MAT-171 Set 5: MAT-003 Set 6: BSP-4003 |

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| State Corequisites | None |

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| **CTS-120\_2014SU** | **Hardware/Software Support** | **CTS-120** |

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| CIS Course ID | S23679 |
| Effective Term | Summer 2014 |
| End Term |  |

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| Class | 2 | Lab | 3 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers. |

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| Competencies |
| 1. Identify appropriate computer equipment and software based on organizational needs. 2. Demonstrate ability to upgrade/maintain existing equipment and software. 3. Repair non-functioning personal computers. |

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| State Prerequisites | None |

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| State Corequisites | None |

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| **CTI-141\_2012SU** | **Cloud & Storage Concepts** | **CTI-141** |

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| CIS Course ID | S23206 |
| Effective Term | Summer 2012 |
| End Term |  |

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| Class | 1 | Lab | 4 | Clinical | 0 | Work | 0 | Credit | 3 |

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| This course introduces cloud computing and storage concepts. Emphasis is placed on cloud terminology, virtualization, storage networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of cloud storage systems. |

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| State Prerequisites | None |

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| State Corequisites | None |