JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Computer Hardware & System Software

Course Abbreviation and Number: CSC 1580   **Credit Hours:** 3   **Course Type:** Lecture

Course Description: Students will study the design, installation, configuration, and maintenance of hardware and software components of a computer. Interior components covered include memory, disk drives, expansion cards, and power supplies. Other common I/O devices and peripherals such as printers and the mouse are studied. Major categories of system software, operation systems, and diagnostic utilities are covered.

No requisites.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Understand basic concepts of Local Area Networks.
2. Demonstrate a grasp of interconnectivity between hardware and software
3. Demonstrate the ability to troubleshoot basic hardware and software problems
4. Demonstrate familiarity with the Microsoft Windows operating system(s)
5. Demonstrate the ability to work in a team in a structured environment
6. Demonstrate good preventive maintenance practices.

Topics Covered:

- System boards: types, upgrading, troubleshooting, components
- Processors: types, upgrading, troubleshooting, identification
- Memory; types, installation and upgrading, troubleshooting
- Disk drives; installation, configuration, maintenance, troubleshooting
- Expansion card installation
- Peripheral installation and operations
- Modems and communications software; installation, configuration, troubleshooting
- Power supplies and safety; installation, troubleshooting
- Microsoft Windows; customization
- Utility software; operations

Information for Students

- Expectations of Students
  - Civility Statement
  - Student Responsibility Statement
  - Academic Integrity Statement
- Accessibility Services
  Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
- Get Help: JCC & Community Resources
- Emergency Closing Procedures
- Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0

- Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.

Effective Date: Fall 2021