

**JAMESTOWN COMMUNITY COLLEGE**  
**State University of New York**

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**INSTITUTIONAL COURSE SYLLABUS**

**Course Title:** Programming Concepts/Appl

**Course Abbreviation and Number:** CSC 1570

**Credit Hours:** 3

**Course Type:** Lecture

**Course Description:** Students will learn the components of the programming cycle including problem analysis, algorithm development, design implementation, debugging, and acceptable documentation standards. Students will implement their algorithms using an object-oriented programming language.

**Eligibility:** college-level math.

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**Student Learning Outcomes:**

Students who demonstrate understanding can:

1. Write an algorithm that will solve a computer problem.
  2. Understand the basic syntax of a programming language so that they can use that language to solve problems.
  3. Demonstrate the ability to design and write structured programs.
  4. Demonstrate the ability to debug a program.
  5. Analyze a problem and craft an appropriate algorithmic solution.
  6. Recognize the importance of ethical behavior in fostering a community of mutual respect and integrity.
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**Topics Covered:**

- Problem Solving and program design
  - Designing algorithms
  - Data types
  - Sequence statements
  - Variable declaration
  - Input and Output
  - Selection statements
  - Looping structures
  - Raise awareness of Computer Science as a discipline
  - Problem solving and algorithmic development
  - Using real world applications in problem solving and programming tasks
  - ACM Code of Ethics and Professional Conduct
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**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
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- 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.
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**Effective Date:** Fall 2021