**JAMESTOWN COMMUNITY COLLEGE**

**State University of New York**

**At Ellicottville Central School District**

**Instructor Course Syllabus**

**Spring 2017**

**Course Abbreviation and Number:** CSC 1570 **Course Title:** Programming Concepts and Applications

**Credit Hours:** 3 **Division:** STEM **Course Type:** Lecture

**Contact Information: Office Hours: As Needed**

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Office Location: 104

**Required Text:** An Introduction to Programming with C++. Cengage, Zak, 8th Edition. ISBN: 978-1-285-86011-4

**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.

Corequisite: MAT 0600.

**Student Learning Outcomes:**

After successful completion of this course, students will be able to:

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



**Topical Outline:**

Problem Solving and program design Raise awareness of Computer Science as a

Designing algorithms discipline

Data types Problem solving and algorithmic

Sequence statements development

Variable declaration Using real world applications in problem

Input and Output solving and programming tasks

Selection statements Scratch Module

Looping structures

**Course Grading Policy**

* + **Grade Structure:**

**A (91-100), B+ (87-90), B (81-86), C+ (77-80), C (71-76), D+ (67-70), D(61-66), F (60 or below)**

**Other Course Policies**

* **Attendance Policy:** Attendance is very important and will have a direct impact on your course grade and overall learning experience. If you are unable to attend class, please contact me in advance by email or phone. You will be responsible for getting notes, handouts, assignments, and announcements from a classmate or from My Big Campus.
* **Late Assignment Policy:** Course projects and other assignments are due by the start of class. If you are excused from class, an assignment can be submitted electronically prior to the start of class. Assignments/Projects that are turned in late will have grades reduced by 10 points for each day (24-hour period) that they are late. If you miss an exam, you will be allowed a make-up PRIOR to the start of the next class ONLY with a valid excuse (note from your doctor, etc.). Contact me immediately if you miss an exam.
* **Expectations of Students:** 
  + Students are expected to come to class with a positive attitude and a willingness to learn.
  + The use of cell phones during class is not permitted. Texting or other cell phone activity during class is a distraction to you, the other students, and the instructor.
  + Civility Statement (<http://www.sunyjcc.edu/current/classroomcivility>)
  + Student Responsibility Statement (<http://www.sunyjcc.edu/academics/student-responsibility>)
  + Academic Integrity (<http://www.sunyjcc.edu/faculty-staff/academic-integrity>)
* **Disability/Special Services**
* Any student who requires accommodations to complete the requirements and expectations of this course because of a disability should make his or her needs known to Nancy Callahan, ADA coordinator/Disability Support Services, 338-1251.
* **Academic Dishonesty/Plagiarism Policy:** Academic dishonesty and plagiarismof any kind will not be tolerated and may result in a failing grade for the course.
* **If there are any changes** to this syllabus regarding due dates, assignments, or any other policies, students will be notified in class and through email communication through Schoology.

**Tips for Student Success**

The successful student will:

* Come to each class, or make arrangements to get notes and assignments when excused from class.
* Take notes during lectures and actively participate during class by asking questions or providing examples of your own experiences relating to the discussion topic.
* Complete homework assignments and turn them in on time.
* Ask the instructor questions during class or during office hours if anything is unclear. This includes questions about course content, assignments, or classroom policies.