Programming in C++

CIS 170 / CPS 177

Summer 2021

Number of Credits: 3

Days Class Meets: Online

Meeting Times: Mondays 1:00pm – 3:00pm Online (optional)

Location/Venue: JetNet Online

Instructor: Dianne Hill

Contact Phone: 517-796-8546

Contact Email: hilldiannem@jccmi.edu

Online Office Hours: Mondays 12:00 – 1:00pm, Tuesdays 12:00 – 1:00pm, Thursdays 3:00 – 5:00pm

---

Course Description
Students study digital computing systems and how they are used to solve problems. Students use procedural and object-oriented programming capabilities to design, develop, and test computer programs. Topics covered include program development, functions, control structures, text file operations, classes, recursion, arrays, and pointers.

Prerequisite(s)
None although it is recommended that Software Engineering majors take CIS 158 prior.

Course Objectives
The course goals and objectives incorporate specific General Education Outcomes (GEOs) established by the JC Board of Trustees, administration, and faculty. These goals are in concert with four-year colleges and universities and reflect input from the professional communities we serve. GEOs guarantee students achieve goals necessary for graduation credit, transferability, and professional skills needed in many certification programs. The GEOs and course objectives addressed in this class include the following:

- Design, write, and test structured computer programs using C++

- Design, write, and test object-oriented computer programs using C++

- Experience maintenance programming by altering existing programs

- Use both internal and external documentation in programs

Textbook (chose appropriate options below)

- Cengage Unlimited subscription

    - eText: C++ Programming: From Problem Analysis to Program Design, D. Malik, 8th Ediction, ISBN: 9781337102087, Cengage Learning

Follett Access

- Please review the cost of your required materials to determine the best option for you to purchase your materials.

- For more information on the Follett ACCESS Program, you can view the view the frequently asked questions.

If after reviewing the costs, you choose to opt out, you may do so here: www.jccmi.edu/optout. Please note your opt out selection is for your entire semester schedule. You cannot opt out and opt in to individual courses. And you must opt out by the due date for your first class.

Class Starts On:	Opt Out Date:
January 11, 2021	January 14, 2021
February 15, 2021	February 18, 2021
March 15, 2021	March 18, 2021
March 30, 2021	April 2, 2021

If you have questions about materials, please contact the Jackson College Follett bookstore at jackson@bkstr.com. For account billing questions, please contact the Jackson College Cashier at jccashier@jccmi.edu.

Extras
C++ compiler

Exam Process- Respondus
To protect the fairness and integrity of the exams, students will be required to take exams using Respondus Lockdown Browser and Monitor. This is an online test proctoring software that requires a download to your computer. Training and practice of Respondus technology will be provided in advance of

the first exam. A Mac or PC that has a webcam and microphone is required to use Respondus. If you do not have this technology, please contact your instructor right away.   Students are expected to complete the Respondus Practice quiz on time. This is to give our IT department time to help troubleshoot issues **before** exam 1 begins. Failure to complete the Respondus quiz on time may result in instructor-initiated drop.

Grading Procedure

ACTIVITY	POINTS EACH	TOTAL POINTS
Introduction Post	10	10
2 Exams	50	100
5 Home Practice Assignments	25	125
10 Quizzes	10	100
Individual Project	50	50
Total Points		385

Assignments, quizzes, exams, etc. could change throughout the semester as deemed appropriate by the instructor

Grading Scale

GPA	GRADE RANGE
4.0	94-100%
3.5	88-93%
3.0	82-87%
2.5	76-81%
2.0	70-75%
1.5	64-69%
1.0	58-63%
0.5	52-57%
0.0	0-51%

Home Practice Assignments

Assignments should be completed using cumulative techniques to date, should be complete, and should be a working program. Structure, documentation and accuracy of input and output will be considered in grading these assignments. Unless otherwise stated all assignments are due one week after they are assigned. Home practice assignments will be accepted up to one week after the due-date with a 50% deduction. No work will be accepted beyond this time. Assignments submitted on-time may be resubmitted for full credit within a timely manner. Programming assignments should be submitted electronically using our course site in JetNet.

Academic Honesty Policy

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

Plagiarism

Plagiarism is defined as the failure to give credit for the use of material from outside sources. Plagiarism includes but is not limited to:

- Submitting other's work as your own

- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation

- Reusing significant, identical or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

Cheating

Cheating is defined as obtaining answers/material from an outside source without authorization. Cheating includes, but is not limited to:

- Plagiarizing in any form

- Using notes/books/electronic material without authorization

- Copying

- Submitting others' work as your own or submitting your work for others

- Altering graded work

- Falsifying data

- Exhibiting other behaviors generally considered unethical

- Allowing your work to be submitted by others

Accessibility

Jackson College understands that cultivating a broadly diverse community is crucial to our educational mission and to our foundational commitment to leadership and service. Jackson College is fully committed to ensuring our courses are accessible to everyone including those with disabilities. We are currently working to increase accessibility and usability of our course materials in order to meet or exceed the requirements of Section 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1991 and Web Content Accessibility Guidelines (WCAG) 2.0. For more information about Jackson College's efforts to ensure accessibility please visit the Jackson College accessibility web page.

If you have an accessibility need in any of our classes please e-mail the Center for Student Success at JCCSS@jccmi.edu or visit the Center for Student Success web page.

At the Center for Student Success (CSS), we are committed to providing all students the opportunity to achieve academic success by providing a variety of support services free of charge to Jackson College students. This includes, but is not limited to, peer and faculty tutoring, mental health referral, temporary assistance with transportation, various workshops/seminars, and the TRIO program.

In addition, the CSS staff is committed to adapting the College's general services to meet the individual needs of otherwise qualified students with disabilities, for the purpose of providing equal access to all programs and facilities.

Help

Available learning services or opportunities for students seeking help with their course work. May include information about tutors, learning centers, reserved library materials, counseling services.

Academic Advising

It is important to contact a Center for Student Success professional prior to the start of the semester in order to receive accommodations in a timely manner. While we will make every effort to coordinate accommodations in a timely manner, failure to self-identify prior to the start of the semester may delay notification to instructors and timeliness of acquiring accommodations. Accommodations do not automatically carry over to the next semester. Please e-mail JCCSS@jccmi.edu or visit the Accommodations for Students with Disabilities web page

Attendance- Participation Policy

For online sections

Just as in a traditional classroom course, regular class participation and keeping up on the reading and assignments is strongly correlated with survival in college. It is my recommendation that you plan to do your assignments and take your exams BEFORE the last day they are due. If problems occur, there is time to fix them before the deadline.

In compliance with Federal Title IV funding requirements, as well as college initiatives, I will be monitoring student participation on a regular basis and officially reporting student activity throughout the term to assure compliance with college policy and federal regulations. It is imperative that you log in to the course

and actively participate *within the first couple of days of the term* to validate your enrollment in the course. After that, not actively participating in class may result in you being withdrawn from the course. Being withdrawn from a course can have an impact on financial aid, billing, athletic eligibility, and housing status. As a college student you are responsible for how your participation impacts your academic progress; the accountability lies with you.

Incompletes

No incomplete grade will be given in this class except under extenuating circumstances and if the student has completed at least 75% of the work and has at least 2.0 in the course. The grade of "I" is not awarded to students who did not attend, or seldom attended, or to those who simply are not pleased with their final grades. Students receiving an "I" submit only the remaining work that had not been completed at the end of the semester. Students do not redo work that had already been graded.

Important Dates:

The Academic Calendar can be found on JC's website at: https://www.jccmi.edu/academics/academic-calendar/

Calendar

*. *The calendar timelines and assignments are an approximation and could be changed.*

WEEK #	TOPIC	HOMEWORK	DUE DATE
1	Introduction and Course Site C++ Basics	Introduction Program Home Practice 1	June 14
2	More C++ Basics and Flow of Control	Home Practice 2	June 21
3	Functions and I/O Streams	Home Practice 3	June 28
4	Midterm Exam Arrays	Home Practice 4	July 5
5	Structures and Classes	Home Practice 5	July 12
6	Overloaded Operators and Misc Topics	Work on Final Project, Prepare for Exam, Homework Resubmissions	July 19
7	Final Project Presentation and Final Exam		July 26