

CLASS CISC 3115 INTRODUCTION

Chunyu Yuan

2022 – 02 - 03

Instructor: Chunyu Yuan

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Course code: ERQ6

Textbook: Introduction to Java Programming and Data Structures (**don't need to buy**)
(ISBN-10: 1-292-22187-9)

Class meeting hours: Thursday 6:30 pm – 10:00 pm

Office hour: 1:00 pm – 2:00 pm (on zoom)

Zoom link: <https://gc-cuny-edu.zoom.us/my/chunyuyuan>

(If you have any questions, you can send me an email directly!)

Prerequisite

CISC 1115 - Introduction to Programming Using Java.

A grade of C or higher in CISC 1115 is required to be able to take CISC 3110.

Information most needed from CISC 1115:

1. Conditional statements (including if-statements, switch statements, and the ternary operator)
2. Loops (including for-loops and while-loops)
3. Arrays (including how to declare arrays, how to iterate through arrays, and how to pass arrays to methods)
4. Methods (including void returning methods, methods that return a value)
5. Parameter passing schemes (difference between pass-by-reference and pass-by-value)
6. How to work with files (both input and output)
7. How to use Strings and the associated string library methods (e.g. indexOf(), length(), +, +=, ==, equals(), compareTo(), substring(), etc.)

Course Objectives

After successfully completing this course, students will be able to

For concepts:

- 1.to understand Java objects, the concepts of state and behavior, and their realization in the Java programming language;
- 2.to understand the four principles of object-oriented programming, i.e., abstraction, encapsulation, inheritance, and polymorphism;
- 3.to understand Java class definition, including the use of constructors and static members;
- 4.to understand exception handling and apply it in Java application design;
- 5.to understand concurrent and event-driven programming basics and to apply these in GUI (graphical user interface) application design and implementation;

For Programming:

1. To use different Java Data Structure API to solve algorithm problems
2. To use Java GUI to design an application

Academic Regulations and Procedures

All students should carefully and thoroughly read the section entitled Academic Regulations and Procedures in the Brooklyn College Undergraduate or Graduate Bulletin for a complete listing of academic regulations of the College.

Academic Integrity

The faculty and administration of Brooklyn College support an environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for policy implementation can be found at <http://www.brooklyn.cuny.edu/bc/policies> . If a faculty member suspects a violation of academic integrity and, upon investigation, confirms that violation, or if the student admits the violation, the instructor shall report the violation to the College.

Student Disability Services

In order to receive disability-related academic accommodations students must register with the Center for Student Disability Services first. Students who have a documented disability or suspect they may have a disability are invited to set up an appointment with the Director of the Center for Student Disability Services at (718)951-5538. If you have already registered with the Center for Student Disability Services, please provide the instructor with the course accommodation form and discuss your specific accommodation with the instructor.

Consideration of Religious Observance

New York State Education Law (Title I, Article 5, Section 224-a) requires that the College makes available to each student who is absent from school, because of his [or her] religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which he [or she] may have missed because of such absence on any particular day or days. If you are unable to attend classes or take examinations, the instructor is happy to accommodate you as permitted by semester schedule and other constraints there may be; however, it is recommended that you make arrangement with the instructor in advance. You may also contact Division of Student Affairs , if you have questions about accommodations for religious observance.

Grade Calculation

Attendance: 5%

Assignments: 65%

Midterm Exam (03/24/2022, open book, open note): 10%

Final Exam (05/19/2022, open book, open note): 20%

All the assignments must to be submitted to the blackboard, due time is 6:pm in the next class

Late submission:

**Late one day, -10% credit,
5 days or more late, 0 credit.**

Assignments: do not cheating or plagiarism !!!