

# Summer Online CSCI 1156 - Computer Programming II - Syllabus

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## Course Information

Location: Zoom Meeting (See the link on Moodle Page)

Textbook: Malik, D. S., Java Programming : From Problem Analysis to Program Design, fifth edition

Zoom Group Meetings: Wednesday 11:00 am -12:00 pm, Friday 9:00 am -11:00 am Eastern Time

Software: jGRASP, Discord, Zoom (all free)

## Instructor

Jia Wan

Email: [jwan@randolphcollege.edu](mailto:jwan@randolphcollege.edu)

Virtual Office Hours: Zoom Meeting

Office Hours: TBA or by appointment

## Goals of the Course

This course serves as an advanced introduction to the field of computer science. By studying this course, you will

- apply the basic concepts and techniques from computer programming I
- be literate about concepts and techniques of computer programming
- understand abstract data type such as array
- write and implement classes handling exceptions and events
- become more familiar with advanced GUI components
- understand and implement elementary algorithms such as search and sort.

## Tentative Schedule

<b>Week of</b>	<b>Material</b>
Week 1	User-Defined Classes and ADTs
Week 2	Arrays, Test 1
Week 3	Inheritance and Polymorphism
Week 4	Handling Exceptions and Events, Advanced GUIs, Recursion, Test 2
Week 5	Searching and Sorting, Bonus Project Presentations, Final Exam

## **Zoom Group Meetings**

The group meetings three times a week (two hours each time) are for practice purpose and it is also my chance to answer your questions regarding course material, homework problems and exam preparation. Attendance to all three meetings each week are recommended. Attendance to at least one of the meetings each week is mandatory. Exceptions may apply by contacting your instructor.

## **Homework**

Homework sets are posted on Moodle for each week and will be graded within 24 hours within the deadline. The HW should be typed as a Word document with java files for programming problems and submitted on Moodle (as in .pdf and .java). A standard template of the HW file with specific requirements can be found on Moodle. No late homework is accepted or excused. Homework assignments worth 100 points in total. You may collaborate on the programming problems but copying each other's solution is prohibited.

## **Tutoring**

Tutoring is available for this class via Randolph Portal. Please contact the tutor in advance to schedule a meeting. Group discussion meetings with or without a tutor are also strongly encouraged. Posting on the course's Discord channel is also welcome and convenient according to previous students.

## **Exams**

There will be two tests and a cumulative final exam, each worth 100 points. Each will be distributed on Moodle and required to be submitted on Moodle in the .pdf format. An instruction of how to convert a handwritten work to a pdf file can be found on Moodle. Please note that students won't be given access to computers for any aid other than downloading and submitting the tests.

## Grading

Grades will be determined by your percentage out of the total possible 400 points with the standard:

93 – 100	A	73 – 76	C
90 – 92	A-	70 – 72	C-
87 – 89	B+	67 – 69	D+
83 – 86	B	63 – 66	D
80 – 82	B-	60 – 62	D-
77 – 79	C+	below 60	F

## Key to Success

- Set up a study plan and stay solid with it. Summer class moves fast and students who are behind with some material usually find them challenged to catch up.
- We will have a Discord channel which allows all students to share their products, questions and answers anytime. Tutors and the instructor will be available for the Discord chat too. In addition, self-scheduled tutoring is available via Randolph College portal.
- Solutions to homework problems and tests will be posted online once they are submitted. Use these wisely.
- Our class goes relatively fast over some details, reading the textbooks in advance will prepare you better. All the lecture PPT slides and example source code will be posted on Moodle in advance.
- Unlike some students may assume, the programming classes are not just about coding practice. It is very important to understand the conceptual material. They provide fundamentals of the science of computer, which also contributes to your programming skills.
- Collaboration on programming problems is allowed; pair-programing is encouraged; but brutal-copied solution is a violation of honor-code.