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# Course Syllabus: CIS 351 Data Structures

## Spring 2022

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Jung-Eun Kim  
Assistant Professor  
Electrical Engineering & Computer Science

### COURSE CATALOGUE DESCRIPTION

Abstract data structures, algorithm analysis, array, string lists, trees, binary search trees, priority queues, hashing, graphs, object-oriented programming.

### CREDITS

- 3 credits

### PREREQUISITE

- CIS 252 or CSE 283
- Knowledge of Java programming language proficient to be able to code and debug programs

### INSTRUCTORS INFORMATION

#### INSTRUCTOR

- Name: Prof. Jung-Eun Kim
- Email: jkim150@syr.edu

#### TA

- Name: Richard Kofi Annan
- Email: rannan@syr.edu

## GRADER

- Name: Qinzhou Li
- Email: qli118@syr.edu

Note: The instructor reserves the right to change any content or aspect of the syllabus including grading criteria, homework, lab, exams, quizzes, schedule and delivery methodology, etc, if need be to meet the course objectives.

## COURSE INFORMATION

### LECTURE

- Days & Time: Tue Thu 12:30pm - 1:50pm
- Location: Link Hall 369
- Attendance is required.

### LABS

- Section M002: Wed 9:30am - 10:25am, CST (Center for Science and Technology) 1-231
- Section M003: Wed 10:35am - 11:30am, CST (Center for Science and Technology) 1-231
- Each submission is graded while attendance is not mandate.
- Submit each lab's assignment by the start of the next lab

### EXAMS

2 midterms (tentatively Mar 1 and April 5, respectively) and 1 final.

### QUIZZES

There may or may not be a quiz in a middle of each lecture. Submissions of quizzes are counted against attendance.

### HOMEWORK

There will be a few number of homework assignments that will be posted on blackboard.

**IMPORTANT: ALL DEADLINES ARE FIRM AND NO EXTENSIONS**

## ASSESSMENT- TENTATIVE

Note, some details can be subject to change.

Quiz	17.5%
Labs	20%
Homework	10%
Midterm exam I	17.5%
Midterm exam II	17.5%
Final exam	17.5%

## REFERENCES (RECOMMENDED TEXT BOOKS)

The lecture notes are the main course materials. Although there is no required text book, you can refer to the following books for your reference and for more details:

- *Data Structures and Abstractions with Java, Fifth Edition, Pearson,*
- *Data Structures and Algorithms in Java, Sixth Edition, Wiley, and*
- *Data Structures and Algorithm Analysis in Java, Third Edition, Dover Publishing.* For online version: <https://people.cs.vt.edu/shaffer/Book/JAVA3elatest.pdf>

Additional recommend/required reading may be posted in blackboards if need be.

## LECTURE MATERIALS

It is acknowledged that the lecture/course materials are a combination of texts and figures (also provided for the instructors) from *Data Structures and Abstractions with Java, Fifth Edition, Pearson*, *Data Structures and Algorithms in Java, Sixth Edition*, by M. T. Goodrich, R. Tamassia, and M. H. Goldwasser, Wiley, *Data Structures and Algorithm Analysis in Java, Third Edition, Dover Publishing*, and the instructor's own contents. Lab materials are mainly based on the previous instructors' contents of the same course.

## COMPUTERS AND OTHER ELECTRONIC DEVICES

Electronic devices such as labtops, phones and tablets frequently become distractions to their owners and/or to the other students in the classroom. I ask that students put away their computers/phones/tablets/. . . etc. during lecture, unless they are using the devices to take notes. You are not allowed to take pictures of the class.

## OTHER COURSE POLICIES

- No complaints, grading concerns, etc. will be discussed in class. Class/lab meeting times are used to teach, learn, and discuss technical topics.
- For course-related communication, you must use your official university email address.
- All emails should have the prefix "CIS351" (without quotes) in the subject line.

- Questions regarding any graded work must be brought to the attention of the instructor/TA/grader in writing within 7 days after the grade is posted. After seven days the grade of the submitted work will be considered final.
- There are no extensions or make-ups for the exams, except for a university-accepted reason.
- You are required to check your SU email at least once a day for any class updates/announcements.
- No emails will be answered during weekends. Hence do not expect a response if you plan to email over the weekend.

## ACADEMIC INTEGRITY - VERY IMPORTANT!

Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy holds students accountable for the integrity of all work they submit and for upholding course-specific, as well as university-wide, academic integrity expectations. The policy governs citation and use of sources, the integrity of work submitted in exams and assignments, and truthfulness in all academic matters, including course attendance and participation. The policy also prohibits students from: 1) submitting the same work in more than one class without receiving advance written authorization from both instructors and, 2) using websites that charge fees or require uploading of course materials to obtain exam solutions or assignments completed by others and present the work as their own. Under the policy, instructors who seek to penalize a student for a suspected violation must first report the violation to the Center for Learning and Student Success (CLASS). Students may not drop or withdraw from courses in which they face a suspected violation. Instructors must wait to assign a final course grade until a suspected violation is reviewed and upheld or overturned. Upholding Academic Integrity includes abiding by instructors' individual course expectations, which may include the protection of their intellectual property. Students should not upload, distribute, or otherwise share instructors' course materials without permission. Students found in violation of the policy are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered, as described in the Violation and Sanction Classification Rubric. Students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice.

All academic integrity expectations that apply to in-person quizzes and exams also apply to online quizzes and exams. In this course, all work submitted for quizzes and exams must be yours alone. Discussing or communicating about quiz or exam questions with anyone during the quiz or exam period violates academic integrity expectations for this course.

Using websites that charge fees or require uploading of course material (e.g. Chegg, Course Hero) to obtain exam solutions or assignments completed by others and present the work as your own violates academic integrity expectations in this course.

The Violation and Sanction Classification Rubric establishes recommended guidelines for the determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation in this course may result in course failure regardless of violation level.

For more information about the policy, please follow the links given from the site:

<http://class.syr.edu/academic-integrity/>

## ACCOMMODATIONS

Our community values diversity and seeks to promote meaningful access to educational opportunities for all students. Syracuse University and I are committed to your success and to supporting Section 504 of the Rehabilitation Act of 1973 as amended and the Americans with Disabilities Act ( 1990 ). This means that in general no individual who is otherwise qualified shall be excluded from participation in, be denied benefits of, or be subjected to discrimination under any program or activity, solely by reason of having a disability. If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS),

<http://disabilityservices.syr.edu>,

located at 804 University Avenue, Room 309 , or call 315-443- 4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented disabilities “Accommodation Authorization Letters,” as appropriate. Because accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

## RELIGIOUS OBSERVANCES

SU’s religious observances policy, found at

<http://supolicies.syr.edu/empben/religiousobservance.htm>,

recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holy days according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice/Student Services/Enrollment/My Religious Observances from the first day of class until the end of the second week of class.

## ACKNOWLEDGEMENT

Some parts of the words in this syllabus are borrowed from the previous instructors’ syllabi of the same course, CS 351, only to accommodate necessary conventions.