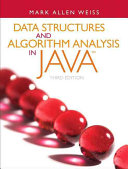
**Textbook and Course Materials**



**Title :**

Data Structures and Algorithm Analysis in Java

**Authors :**

Mark Allen Weiss

**Publisher :**

Addison-Wesley Longman, Dec-2011

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[Purchase/Rent at FIU Bookstore](https://fiu.bncollege.com/shop/fiu/page/find-textbooks)

**Expectations of this Course**

This is an online course, which means most (if not all) of the course work will be conducted online. Expectations for performance in an online course are the same for a traditional course. In fact, online courses require a degree of self-motivation, self-discipline, and technology skills which can make these courses more demanding for some students.

Students are expected to:

* Review the how to get started information located in the course content
* Introduce yourself to the class during the first week by posting a self-introduction in the appropriate discussion forum and an appropriate photo
* Take the practice quiz to ensure that your computer is compatible with Canvas
* Interact online with instructor/s and peers
* Review and follow the course calendar
* Log in to the course 4 times per week
* Respond to discussion board postings within 2 business days
* Respond to emails/messages within 2 business days
* Submit assignments by the corresponding deadline
* Check official FIU email and Canvas Messages daily

The instructor will:

* Log in to the course 3 times per week
* Respond to emails/messages within 2 business days (excluding holidays and weekends)
* Grade assignments within 7 business days of the assignment deadline

Assignments from the text and other resources are listed for each class session. Students are expected to pace their learning according to the posted course assignments.  
  
It is expected that interactive learning and teaching will enrich the learning experience of all students, and that each student will work in partnership with the professor to create a positive learning experience for all. Student engagement is a necessary condition for an effective learning experience and includes contributions to debate and discussion (if any), positive interactive learning with others, and an enthusiastic attitude towards inquiry. Everyone is expected to be a positive contributor to the class learning community, and students are expected to share the responsibility of teaching each other.

**Religious Holidays**

The University's policy on religious holy days as stated in the University Catalog and Student Handbook will be followed in this class. Any student may request to be excused from class to observe a religious holy day of his or her faith.

COURSE DETAIL

**Course Communication**

Communication in this course will take place via the Canvas Inbox. Check out the [Canvas Conversations Tutorial](https://vimeo.com/canvaslms/212en) or [Canvas Guide](https://community.canvaslms.com/docs/DOC-10574-4212710325) to learn how to communicate with your instructor and peers using Announcements, Discussions, and the Inbox. I will respond to all correspondences within 48 business hours (excluding holidays and weekends).

**Discussion Forums**

Keep in mind that your discussion forum postings will likely be seen by other members of the course. Care should be taken when determining what to post.

You will have two (2) discussion prompts to respond to throughout this course.  You will be required to respond to two (2) peers' posts.  Please refer to the Course Calendar for due dates.

**Assessments**

In order to mitigate any issues with your computer and online assessments, it is very important that you take the "Practice Quiz" from each computer you will be using to take your graded quizzes and exams. It is your responsibility to make sure your computer meets the minimum [hardware requirements](https://online.fiu.edu/student/resources/software-resources.php).

All assessments will auto-submit when (1) the timer runs out OR (2) the closing date/time is reached, whichever happens first. For example, if a quiz has a closing time of 5:00 pm but the student begins the exam at 4:55 pm, the student will only have 5 minutes to complete the quiz.  
  
Assessments in this course are not compatible with mobile devices and should not be taken through a mobile phone or a tablet. If you need further assistance please contact [FIU Online Support Services](http://online.fiu.edu/supportservices).

**Practice Quiz**

A multiple-choice quiz that is designed to ensure your computer is setup and working properly for actual quizzes.  (This does not count toward your overall quiz grade).

**Exams**

You will have 2 exams in this course - the Midterm and the Final Exam (multiple choice, true and false, and short-answer essays with coding). You will have 75 minutes to complete the Midterm and 90 minutes to complete the Final Exam.  For each exam you will have 1 attempt. These exams will be proctored with Honorlock.

Refer to the Course Calendar of the syllabus and Canvas for availability dates.

**Assignments**

**Assignments**

You will have 4 programming assignments using Java 7 (or higher). You will need Netbeans, JCreator, or Eclipse to complete these programming assignments. Your submission must be compressed (zip file format will only be accepted).

Assignments will be group assignment of three (3) students. Only one member of a group is required to submit the assignment. When graded the other two students will receive the same grade.

Refer to the Course Calendar (below) of the syllabus and Canvas for availability dates.

**Grading**

**Late Assignment Submission Policy**

 Late assignments will not be accepted.

| **Course Requirements** | | | **Number of Items** | | **Points for Each** | | **Total Points Available** | **Weight** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Assignments | | | 4 | | 20 | | 80 | 40% |
| Midterm Exam | | | 1 | | 40 | | 40 | 20% |
| Final Exam | | | 1 | | 50 | | 50 | 30% |
| Discussions | | | 2 | | 10 | | 30 | 10% |
| **Total** | | | 9 | | -- | | 210 | 100% |
| **Letter** | **Range (%)** | **Letter** | | **Range (%)** | | **Letter** | **Range (%)** | |
| A | 95 - 100% | B | | 83 - 86% | | C | 70 - 76% | |
| A- | 90 - 94% | B- | | 80 - 82% | | D | 60 - 69% | |
| B+ | 87 - 89% | C+ | | 77 - 79% | | F | 0 -59% | |

COURSE CALENDAR

**Weekly Schedule**

This syllabus is subject to change; you are responsible for regularly monitoring Canvas Announcements, Conversations/Inbox and your FIU student email to be aware of any noted changes.

| **Date** | **Module Topics** | **Tasks** |
| --- | --- | --- |
| Week 1 Aug 22 – Aug28 | * Course Overview * Chapter 1 | Due Sunday, 11:59 pm:   * Watch course “Welcome” video * Review Module 0: Getting Started * Review Course and Syllabus * Introduce Yourself post * Practice Quiz * Academic Honesty Policy Quiz * Read Chapter 1 * Review Chapter Resources/PowerPoint slides |
| Week 2 Aug 29– Sep4 | * Chapter 2: Algorithm Analysis | Due Sunday, 11:59 pm:   * Read Chapter 2 * Review Chapter Resources/PowerPoint slides |
| Week 3 Sep 5 – Sep 11 | * Chapter 3: Lists, Stacks, and Queues | Due Sunday, 11:59 pm:   * Read Chapter 3 * Assignment 1 |
| Week 4 Sep 12 – Sep18 | * Chapter 3: Lists, Stacks, and Queues | Due Sunday, 11:59 pm:   * Read Chapter 3 * Review Chapter Resources/PowerPoint slides * Discussion 1 |
| Week 5 Sep 19– Sep 25 | * Chapter 4: Trees | Due Sunday, 11:59 pm:   * Read Chapter 4 * Review Chapter Resources/PowerPoint slides |
| Week 6 Sep 26– Oct2 | * Chapter 4: Trees | Due Sunday, 11:59 pm:   * Read Chapter 4 * Review Chapter Resources/PowerPoint slides |
| Week 7 Oct 3 – Oct9 | * Chapter 5: Hashing | Due Sunday, 11:59 pm:   * Read Chapter 5 * Review Chapter Resources/PowerPoint slides * Discussion 2 * Assignment 2 |
| Week 8 Oct 10 – Oct 16 | * Midterm Exam (covering Chapters 2 - 5) | Due Sunday, 11:59 pm:   * Review Chapter 2 - 5 * Review Chapter Resources/PowerPoint slides * Midterm Exam (available Friday 12:00 am - Sunday 11:59 pm) |
| Week 9 Oct 17 – Oct 23 | * Chapter 6: Priority Queues | Due Sunday, 11:59 pm:   * Read Chapter 6 * Review Chapter Resources/PowerPoint slides |
| Week 10 Oct 24 – Nov30 | * Chapter 6: Priority Queues | Due Sunday, 11:59 pm:   * Read Chapter 6 * Review Chapter Resources/PowerPoint slides |
| Week 11 Oct 31 – Nov6 | * Chapter 7: Sorting | Due Sunday, 11:59 pm:   * Read Chapter 7 * Review Chapter Resources/PowerPoint slides * Assignment 3 |
| Week 12 Nov 7 – Nov 13 | * Chapter 7: Sorting | Due Sunday, 11:59 pm:   * Read Chapter 7 * Review Chapter Resources/PowerPoint slides * Discussion 3 |
| Week 13 Nov 14 – Nov 20 | * Chapter 8: Disjoint Set Class | Due Sunday, 11:59 pm:   * Read Chapter 8 * Review Chapter Resources/PowerPoint slides |
| Week 14 Nov 21– Nov 27 | Thanksgiving Break | |
| Week 15 Nov 28 – Dec 4 | * Chapter 9: Graph Algorithms | Due Sunday, 11:59 pm:   * Read Chapter 9 * Review Chapter Resources/PowerPoint slides * SPOTS Course Evaluation * Assignment 4 |
| Week 16 Dec 5– Dec 11 | * Final Exam (covering Chapters 6 - 9) | Due Saturday, 11:59 pm:   * Review Chapters 6 - 9 * Review Chapter Resources/PowerPoint slides * Final Exam (available Thursday 12:00 am - Saturday 11:59 pm) |