



**Idaho State  
University**

**Computer  
Science**

## CS 2235 – Fall 2019 Data Structures and Algorithms

### **Academic Events**

- August 19 – Fall Classes Begin
  - August 30 – Last day to register, add/drop, change section or audit full semester courses. Also, last day to submit Idaho Residency Determination Worksheet with documentation to the Registrar
  - September 2 – Labor Day holiday (no classes)
  - September 3 – Last day to file application for December graduation
  - October 7-11 – Mid-term week
  - October 21 – Spring 2020 Class Schedule viewable online
  - October 25 – Last day to WITHDRAW from full semester courses
  - November 4 – Class level registration begins for Spring 2020
  - November 25-29 – Fall recess (no classes)
  - December 2 – Course grading opens
  - December 2-6 – Closed Week
  - December 9 – Summer 2020 Class Schedule viewable online
  - December 9-13 – FINAL Examinations
  - December 13 – Fall Classes End
  - December 20 – Fall grades post to student transcript
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# Course Schedule

| Week               | Date            | Topic                     | Reading   |
|--------------------|-----------------|---------------------------|-----------|
| 1                  | 08/20: T        | Introduction and Java     | Ch 1      |
|                    | 08/22: R        | Java                      | Ch 2      |
| 2                  | 08/27: T        | Java                      | Ch 2, 3.1 |
|                    | 08/29: R        | Java                      | Ch 5      |
| 3                  | 09/03: T        | Recursion                 | Ch 4      |
|                    | 09/05: R        | Algorithm Analysis        | Ch 4      |
| 4                  | 09/10: T        | Algorithm Analysis        | Ch 12     |
|                    | 09/12: R        | Sorting I                 | Ch 12     |
| 5                  | 09/17: T        | Sorting II                | Ch 7      |
|                    | 09/19: R        | Iterators and Comparators | Ch 3      |
| 6                  | 09/24: T        | Lists                     | Ch 3      |
|                    | 09/26: R        | Lists                     | Ch 3      |
| 7                  | 10/01: T        | Stacks                    | Ch 3      |
|                    | 10/02: R        | Queues                    |           |
| 8                  | 10/08: T        | Trees                     | Ch 4      |
|                    | 10/10: R        | Trees                     | Ch 8      |
| <b>Midterm</b>     | 10/15: T        | Midterm Review            |           |
|                    | <b>10/17: R</b> | <b>Midterm Exam</b>       | Ch 4      |
| 10                 | 10/22: T        | Return Exams & Traversals | Ch 8      |
|                    | 10/24: R        | Binary Search Trees       | Ch 11     |
| 11                 | 10/29: T        | Self-Balancing Trees      | Ch 11     |
|                    | 10/31: R        | Self-Balancing Trees      | Ch 13     |
| 12                 | 11/05: T        | Tries and Skiplists       | Ch 9      |
|                    | 11/07: R        | Heaps and Priority Queues | Ch 10     |
| 13                 | 11/12: T        | Maps                      | Ch 10     |
|                    | 11/14: R        | Sets                      | Ch 14     |
| 14                 | 11/19: T        | Graphs                    | Ch 14     |
|                    | 11/21: R        | Graphs                    | Ch 14     |
| <b>Fall Recess</b> |                 |                           |           |
| <b>Closed</b>      | 12/03: T        | Graphs                    |           |
|                    | 12/05: R        | Final Review              |           |
| <b>Finals</b>      | 12/12: R        | Final Exam @ 0730 – 0930  |           |

# Assignment Schedule

**Note:** All assignments are due at 0000h of the day they are marked due in the following table.

| Week               | Date                 | Assigned     | Due          |
|--------------------|----------------------|--------------|--------------|
| 1                  | 08/19: M<br>08/23: F |              |              |
| 2                  | 08/26: M<br>08/30: F |              |              |
| 3                  | 09/02: M<br>09/06: F | PP 01, PA 01 |              |
| 4                  | 09/09: M<br>09/13: F |              | PA 01        |
| 5                  | 09/16: M<br>09/20: F | PA 02        | PP 01        |
| 6                  | 09/23: M<br>09/27: F | PP 02        | PA 02        |
| 7                  | 09/30: M<br>10/04: F | PA 03        |              |
| 8                  | 10/07: M<br>10/11: F |              | PP 02, PA 03 |
| <b>Midterm</b>     | 10/14: M<br>10/18: F | PP 03, PA 04 |              |
| 10                 | 10/21: M<br>10/25: F |              | PA 04        |
| 11                 | 10/28: M<br>11/01: F | PA 05        | PP 03        |
| 12                 | 11/04: M<br>11/08: F | PP 04        | PA 05        |
| 13                 | 11/11: M<br>11/15: F | PA 06        |              |
| 14                 | 11/18: M<br>11/22: F |              | PP 04, PA 06 |
| <b>Fall Recess</b> |                      |              |              |
| <b>Closed</b>      | 12/06: F             |              |              |
| <b>Finals</b>      | 12/12: T             | Final Exam   |              |