

# Day 1 Lesson Plan

## First Day Stuff

30 min

- Introductions
- Syllabus
- Clean Code Introduction (6 mins)<sup>1</sup>
- Questions?

## Activity 1: Basic Java Syntax

1 hour

- Brief introduction to classes and objects<sup>2</sup> (work with neighbor(s))
- Short lecture with handouts:
  - Java Language Overview<sup>3</sup>
  - Example program<sup>4</sup>
- Q/A

## Activity 2: Introduction to IntelliJ

30 mins

- Code palindrome example in IntelliJ<sup>5</sup> (work in pairs)

## Lunch

- Get Lunch
- Watch Clean Code-Remake (54m)<sup>6</sup>

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<sup>1</sup>[https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE\\_01\\_00\\_00](https://learning.oreilly.com/videos/clean-code/9780134661742/9780134661742-CODE_01_00_00)

<sup>2</sup>[../activities/activity1-1classesObjects.html](https://learning.oreilly.com/activities/activity1-1classesObjects.html)

<sup>3</sup>[../cheatsheets/javaBasics.html](https://learning.oreilly.com/cheatsheets/javaBasics.html)

<sup>4</sup>[../activities/activity1-1basicJavaSyntax.html](https://learning.oreilly.com/activities/activity1-1basicJavaSyntax.html)

<sup>5</sup>[../activities/activity1-2palindrome.html](https://learning.oreilly.com/activities/activity1-2palindrome.html)

<sup>6</sup>[../videos/01-clean\\_code.html](https://learning.oreilly.com/videos/01-clean_code.html)

### Activity 3: Variables and Designing a Java Class

1 hour

- Design a Circle class<sup>7</sup> (work in groups)

### Activity 4: More Practice with IntelliJ

30 mins

- Code Circle class from Activity 3<sup>8</sup> (work individually)
- source code<sup>9</sup>

### Activity 5: Coding Exercise

1 hour

- Students: create GitHub login if you do not yet have one.
- Write program to read and process list of GPAs.
- See programming activity 1<sup>10</sup>
- Students: Make sure students commit at the end of the day.

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<sup>7</sup> [../activities/activity1-3circleClass.html](#)

<sup>8</sup> [../activities/activity1-4codeCircleClass.html](#)

<sup>9</sup> <https://github.com/sdp-resources/basicGraphing/releases/tag/WritingCircleAssignment>

<sup>10</sup> [../activities/activity1-5gpaCalculator.html](#)