EECS2030 (Sections B & E) Fall 2026
Guide to Written Test 2

When: Wednesday, November 25 (during your enrolled lab session)	
Duration: 60 minutes	
Section B (LAB 01/02/03)	Section E (LAB 01/02/03)
14:50 to 15:50	16:00 to 17:00
WSC 106/108	WSC 106/108
Registered Accommodation (from both sections)	
Starts at 14:50	
WSC 105	

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- You **must** attend the test in the time and room assigned to your enrolled session (LAB 01 or LAB 02).
- There will be multiple test sessions running on the same day. Before all sessions end, it is considered **a breach of academic integrity** if you communicate about the content of your test with others attending a different test session.
- You **must** take the written test **in-person**: any remote attempt will be marked zero automatically.
- This written test is **strictly** individual: identified collaborations will be reported to Lassonde for **a breach of academic integrity**.
- This written test accounts for **8%** of your course grade.
- Unlike the labs (and the later programming tests), there will be **no** starter project for you to download and import.
- All questions will be answered on the common Sections B & E eClass site.
- You will be **solely** responsible for any **loss of time or marks** due to any of the following failing:
  - You have a working EECS account to login into a WSC lab machine.
  - You have a working PPY account to login into the eClass site (subject to Duo Mobile verification).

1 Rules

- Upon your arrival, please wait **outside** the lab room.
  - Once the rooms are set up for the test, you will be allowed for entry.
- You may **only** bring to your seat:
  - Stationary (e.g., pen, pencil, eraser)
  - Sketch paper (blank on both sides).

    You **must** return the sketch paper, signed with your name, at the end of the test.
  - Water bottle
  - A photo ID (e.g., YU card, driver's license, passport)

    Digital YU card (with a photo) on your mobile device is acceptable.
  - Mobile device (for Duo Mobile verification only)

    During the test, always put the device face-down.
- All other personal belongings should be placed in front of the lab room.
- As soon as you are seated, login into a machine (using your EECS account), and then use a web browser (e.g., Firefox) to login into the common Sections B & E eClass site (using your PPY account).
  - The written test will be ***opened*** and ***closed*** for submission during the test period.
  - This is a **closed-book** test: use of any internet resources or notes is forbidden.
  - You are **forbidden** to use any programming IDE (e.g., Eclipse) during the test.
- In principle, there will be **no** questions allowed during the test.
  - TAs will **not** answer questions.
  - If really necessary, the instructor will respond to your question, but you may just be advised to read the question(s) again more carefully.

2 Format

- Most ($\geq 70\%$) of the questions will be multiple-choice questions. For examples:
  - A true or false question
  - A question with a **single** correct answer
  - A question with **multiple** correct answers

    e.g., Say you are given 5 answers for the question: 2 of them are correct (and 3 of them are incorrect). Accordingly, for each correct answer you choose will receive a credit of $\frac{100\%}{2} = 50\%$, whereas for each incorrect answer you choose will receive a penalty of $\frac{-100\%}{3} = -33.3\%$.

    Say you chose one correct answer and one incorrect answer, then you would receive $50\% + (-33.3\%) = 16.7\%$ of the full marks. Also, the minimum mark you can receive is 0 (e.g., when you chose one correct answer and two incorrect answers).

    This mechanism is to ensure that one cannot just receive full marks by simply choosing *all* answers.
- There might be written questions requiring you to, e.g.,:
  - Write a fragment of Java code
  - Explain how a given fragment of Java code works at runtime
  - Explain why a given fragment of Java code works

3 Coverage for the Test

- You need **not** study Lab1, Lab2, Lab3, and Lab4 for the test.
- The concepts about Github and terminal commands are **not** covered in the test.
- Basic OOP in Java:
  - Tutorial Videos (Part 1 & Part 2) Link
  - iPad Notes [Pdf]
  - Classes and Objects [Pdf]
- Call by Value & Object Equality [Pdf]
- Inheritance (up to and including Slide 67) [Pdf]

  Lecture 18 (Monday, November 16) **will be** covered in the test.

  Parts of Lecture 19 (Wednesday, November 18) that are related to the slides coverage **will be** covered in the test.
- Notes on Static Types, Expectations, Dynamic Types, and Type Casts [Pdf]
- Example codes made available on the lectures site

4 Study Tips for the Test

- The test is meant to **test your understanding** of the taught concepts (which is different from a programming test in which you are expected to write Java programs with no syntax or type errors).
- Go through the slides and annotated iPad notes to review the concepts and examples. Re-watch parts of the lecture/tutorial videos if necessary.
- Pay special attention to the logic explained on ***tracing Java code*** (e.g., use of a boolean variable to control the entrance into and exit from a loop, visualizing object creations and method calls).
- Given a piece of Java code, you are expected to judge:
  - If it does **not** compiler, then what **syntax errors** or **type errors**?
  - If it compiles:
    - Will an **exception** occur (e.g., `IndexOutOfBoundsException`, `NullPointerException`)?
    - If no exception will occur at runtime, then what **console output** will it produce? Are there any **logical errors** (i.e., the output is not as expected)?

5 Example Test

- Some example test questions have been made available on the common Sections B & E eClass site (under the `Practice Written Tests` section). You can attempt this test for as many times as you wish.

  These example questions will be **closed** for access shortly before the first test session starts (at 1 PM on the test day).
- It is important to note that:
  - These practice questions are meant for familiarizing yourself with the **format** and **workflow** of the test and covering **only** some of the topics required by the actual test: you are expected to study **all** materials as listed in Section 4.
  - The level of difficulty of the actual test may be **higher**.