

# EECS2030 (Sections B & G) Fall 2025

## Guide to Written Test 2

|                                                                 |                          |
|-----------------------------------------------------------------|--------------------------|
| WHEN: Wednesday, November 19 (during your enrolled lab session) |                          |
| DURATION: 60 minutes                                            |                          |
| Section G (LAB 01/02/03)                                        | Section B (LAB 01/02/03) |
| 13:20 to 14:20                                                  | 14:30 to 15:30           |
| WSC 106/108                                                     | WSC 106/108              |
| Registered Accommodation (from both sections)                   |                          |
| Starts at 13:20                                                 |                          |
| WSC 105                                                         |                          |

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LAST UPDATE: November 11

- You **must** attend the test in the room assigned to your enrolled session (LAB 01, LAB 02, or LAB 03).
- 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 **9%** 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 Sections B & G 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 Sections B & G 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 19 (Wednesday/Thursday, November 12/13) **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** compile, 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 Sections B & G 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**.