

EECS3342 (Section E) Fall 2026

Guide to Programming Test

<u>WHEN</u> : Wednesday, October 7 (during your <u>enrolled</u> lab session)	
<u>WHERE</u> : LAS 1002/1002B	
<u>DURATION</u> : 50 minutes	
LAB01/LAB02	LAB03/LAB04
13:30 to 14:20	14:30 to 15:20

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1 Policies

- This programming test is in-person and **strictly** individual: plagiarism check may be performed and suspicious submissions will be reported to Lassonde for **a breach of academic integrity**.
- This programming test will account for **15%** of your course grade.
- This test is **purely** a programming test, assessing if you can construct contexts and machines in the **Rodin** tool, using **valid Rodin** syntax **free of** syntax, type, and logical errors.
- **Structure of the Test:**
 - At the start time on the test day, all LAS machines will be rebooted to the “lab-test mode” (where there is **no** network connection and you are expected to use the **Rodin tool only**).
 - During the test, you will be expected to:
 - * Launch the Rodin tool on a designated workspace.
 - * Create a new project with context(s) and machine(s) with the designated names.
 - * Construct models (i.e., static contexts and dynamic machines) of the given problem, with the **required** constant/variable/event/parameter and axiom/invariant names.
Caveat. It is absolutely critical for you to use the **exact names** (and **not** to introduce any extra constant/variable/event/parameter and axiom/invariant) as required by the test instructions.
 - * No interactions with the Rodin prover are expected in this test.
 - You are **solely responsible** for:
 - * **leaving enough time (≈ 3 minutes) to export the completed Rodin project as an .zip archive file and upload/submit it to WebSubmit; and**
 - * **submitting the right files for grading.**

– **Submission for Grading:**

- Like your labs, submission (of an archive `.zip` file) for this programming test must be through the WebSubmit link (which will be provided during the test).
- It is your sole responsibility for making sure that the correct version of the exported archive file is submitted. **After** clicking on the **submit** button on WebSubmit, you should **re-download** the archive file and make sure that it contains the right files to be graded. **No** excuses or submissions will be accepted after your attempt times out.

– **General Grading Criteria**

By importing your submitted archive file to Rodin:

- If the project contains any errors (e.g., syntax errors, type errors), the TA will attempt to fix the errors for you, if they can be fixed quickly. If succeeded, there will be a **20% penalty** on the resulting mark.
- If the required constant/variable/event/parameter and axiom/invariant names you use are **not** exactly as instructed, the TA will attempt to fix this for you. If succeeded, then there will be a **10% penalty** on the allocated marks for that component.
- Unless otherwise specified in the instructions, it is expected that all associated proof obligations (POs) of your model (which satisfy the constraints as specified in the instructions) get discharged automatically.

2 Format

The format of this programming test will be **identical** to that of your **Lab2**: given informal problem descriptions, construct a Rodin model such that all associated POs get discharged automatically.

- You may bring your own sketch paper (**blank on both sides**). No sketch paper will be provided during the test.
- As a reminder of the basic syntax, the following document will be made available to you during the test:

<https://wiki.event-b.org/images/EventB-Summary.pdf>

- **Note.** If you wish, you are allowed to bring a printed copy of the above Event-B summary document. However, the copy you bring must be **strictly notes-free**. During the test, you must **not** sketch on this copy: any sketch must be done on your own sketch paper.

You're advised to go over the above document prior to the test so that you can easily find what you need during the test.

- You will not need to do any setup for proof tactics.
- You will be expected to manipulate the Rodin tool (by creating models), see Lab1.

3 Coverage for the Test

- Lab1
- Lab2
- Reviewing the math review lecture can be helpful.

4 Practice Questions

- Two practice tests have been made available on the *Section E eClass site*. Solutions to the practice questions will be made available shortly after your Lab2 deadline.
- **Neither** practice test will be graded, but you may practice submitting them.
- It is important to note that these questions are meant for familiarizing yourself with the **format** and **workflow** of the test, and they represent **only** as an example: you are expected to study **all** materials as listed in Section 3.

5 Simulating the Programming Test

It is highly recommended that you simulate taking the programming test by following these steps:

Preparation

- Log in to a machine under remotelabs (using your EECS account): <https://remotelab.eecs.yorku.ca/>. Choose a machine under the **ea** category.
- Launch the Firefox web browser (under Activities) and login into the Section E eClass site.
- Download and open the **PracticeTest1.pdf** file from eClass onto the Desktop.

Start the Test

- Start a timer (say for 60 minutes).
- Launch Rodin (under Activities)
- Tackle the test by constructing the model(s) as instructed.
- **Before you submit, you should make sure that there are no errors in any of the files.**

Submission

- **It is a recommended practice that you submit intermediate versions of your Rodin project (e.g., every 15 to 20 minutes).**
- Upload the exported **.zip** archive file of your completed Rodin project to the WebSubmit link for grading:

<https://webapp.eecs.yorku.ca/submit/?acadyear=2026-27&term=F&course=3342&assignment=PT1>