

Exam: MICROFABRICATION TECHNOLOGIES (MICRO-331)

Friday, January 17, 2025, from 15h15 to 18h15 (CM1105, CM1106, CM1120)

École Polytechnique Fédérale de Lausanne (EPFL), CH-1015 Lausanne, Switzerland

1. Exam Rules

1. Entry into the room at 15h00.
2. Each student is assigned a numbered seat in the exam room (the room and number will be communicated by the instructor via email before the exam. It will also be visible at the door of the respective room).
3. Each student must bring their student ID card (Camipro). If unavailable, they can present a photo ID. Place your Camipro card on your desk.
4. Put your phone in silent mode and put it out of your sight, ideally into your bag.
5. Permitted materials: pens, white correction fluid, your exam preparation sheet consisting of 1 A3 sheet or 2 A4 sheets (i.e., four pages), food, drinks.
6. It is highly recommended to bring white correction fluid as it is the only way to correct wrong answers in the MC/SC part.
7. We will ask you to leave your preparation sheet with your exam when you have finished, as we will collect it.
8. The use of phones, tablets, computers, etc., is prohibited and will result in disqualification of the exam.
9. The exam copy is provided on your desk. You are not allowed to look at your exam copy before 15h15.
10. Verify that your name and SCIPER number are correct on the first page (special characters in the name might not be correctly shown or missing entirely)
11. The exam begins at 15h15.
12. The exam consists of multiple-choice questions and several open problem questions.
13. Place your final answers into the allocated space for it. In case you need another space in the document, please make sure it is clear what your final answer is.
14. Use a black or blue pen for the solutions. Solutions written in red or pencil are not accepted.
15. To correct a mistake, you can only use a white eraser liquid or similar tool.
16. Assistants and proctors do not answer students' questions.
17. A supervised bathroom break is allowed.
18. If a student requests to leave the room before 18h00, they must submit their copy definitively.
19. After 18h00, please remain seated until all copies are collected by the assistants.
20. The exam ends at 18h15 (except for students with extra time).
21. Stop writing and stay at your place until the proctors collect your exam copy.
22. There will be also a course evaluation form that you are invited to fill out, after you have done your exam. We appreciate your feedback, which will help to further improve the course for the future. Please leave the filled-out form on your desk. It will be collected by the assistance and put in the envelope to return to the school.

2. Suggestions for the Exam

1. Read the instructions carefully (and at least twice!).
2. Use some of the extra empty sheets provided in the exam (unless you are running very late). Once you are satisfied with your complete or partial solution, copy it into the allocated space for the answer.
3. Be concise and clear. A correct result can be overlooked in an illegible copy. Highlight/frame the final result.
4. There are two new process flow questions at the end. Use the fabrication knowledge that you learned and apply it in this conceptual question. Try to qualitatively determine and/or draw the solution before writing down the exact order of fabrication steps. If you think you understand the key process steps and the order, but do not have time to develop all the details, write down what you understand. If your idea is correct, you will receive partial points.