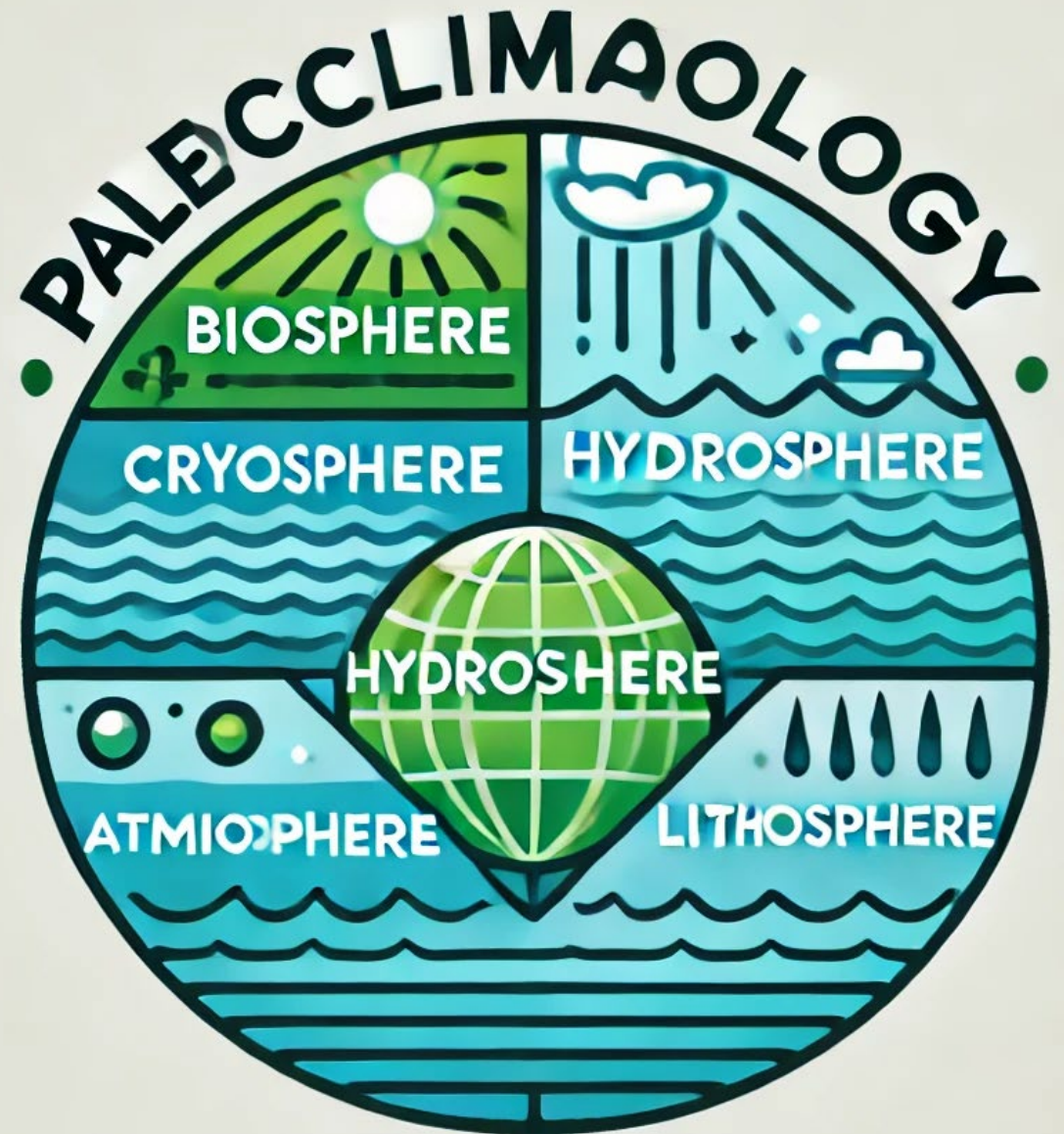# PALEOCLIMATOLOGY, CLIMATOLOGY AND CLIMATE MODELS

- Bachelor's degree in Earth and Climate dynamics
- II YEAR – I SEMESTER
- 2024/2025

Paleoclimatology Module + Climatology and Climate Models

EXAM DATES

PALEOCLIMATOLOGY, CLIMATOLOGY AND CLIMATE MODELS		
(L-34 Earth and Climate Dynamics– II Year - I Semester)		
Exam dates A.A. 2024-2025		
Date	**Hour**	**Venue**
22/01/2025	h. 9.00	Dip. di Geoscienze (Room TBD)
11/02/2025	h. 9.00	Dip. di Geoscienze (Room TBD)
18/06/2025	h. 9.00	Dip. di Geoscienze (Room TBD)
04/07/2025	h. 9.00	Dip. di Geoscienze (Room TBD)
21/08/2025	h. 9.00	Dip. di Geoscienze (Room TBD)

EXAM -1

Written test (duration 1h):
5-10 multiple choice questions => 9/30
2 open questions => 16/30
Journal club:
Group presentation on paper published on high ranking journal on a topic voted by the Students =>5/30

The knowledge and skills acquired during the course are assessed through a **written examination**, accounting for ca. 85% of the evaluation (25/30). This examination evaluates concepts, scientific terminology, synthesis abilities, and critical thinking.

Additionally, students' skills will be assessed through **group presentations** on assigned topics, accounting for the remaining 15% (5/30), which also assesses teamwork.
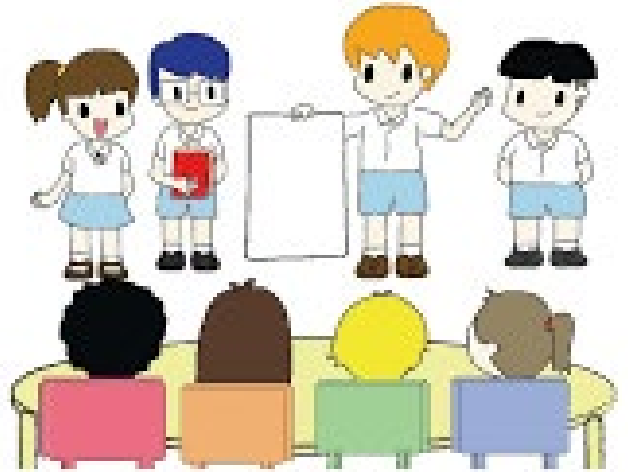
EXAM -2

written test (85%)

Evaluation criteria:

group presentation (15%)

5-10 multichoice questions
2 open questions

1 group presentation
Q&A

• multiple choice questions: correctness of the answers
• 2 open questions: 1) knowledge of the topics covered in the course; 2) understanding of the topics covered in the class; 3) criticism and link capability on the knowledge acquired during the course; 4) synthesis ability; 5) proper terminology.

• Journal class: 100% peer student evaluation

EXAM -3

EVALUATION CRITERIA GRID - OPEN QUESTIONS

Knowledge of the Topics Covered in the Course

Level 1 (Poor): Knowledge of the topics is very limited and incomplete. The student demonstrates a superficial understanding of fundamental concepts.

Level 2 (Adequate): Knowledge of the topics is sufficient but could be improved. The student shows a basic understanding of key concepts.

Level 3 (Good): Knowledge of the topics is solid and comprehensive. The student demonstrates a good understanding of the concepts covered in the course.

Level 4 (Excellent): Knowledge of the topics is exceptional. The student shows a deep and sophisticated understanding of the material.

Understanding of the Topics Covered in the Class

Level 1 (Poor): Understanding of the topics is limited, and the student has difficulty connecting concepts.

Level 2 (Adequate): Understanding of the topics is adequate but could be deepened. The connection between concepts is present but not always clear.

Level 3 (Good): Understanding of the topics is solid, and the student can connect concepts clearly.

Level 4 (Excellent): Understanding of the topics is exceptional, and the student demonstrates an advanced ability to critically and thoroughly connect concepts.

Criticism and Link Capability on the Knowledge Acquired During the Course

Level 1 (Poor): The ability to criticize and link information is poor or absent.

Level 2 (Adequate): The ability to criticize is present but could be further developed. The linking of information is sufficient.

Level 3 (Good): The ability to criticize is good, and the student can effectively link the information acquired during the course.

Level 4 (Excellent): The ability to criticize is exceptional. The student demonstrates deep reflection and an advanced ability to link acquired knowledge innovatively.

Synthesis Ability

Level 1 (Poor): Synthesis ability is limited or absent.

Level 2 (Adequate): Synthesis ability is present but could be further developed. The presentation of information is basic.

Level 3 (Good): Synthesis ability is good, and the student can present information clearly in a synthesized manner.

Level 4 (Excellent): Synthesis ability is exceptional. The student demonstrates an advanced ability to integrate and present information clearly and concisely.

Proper Terminology

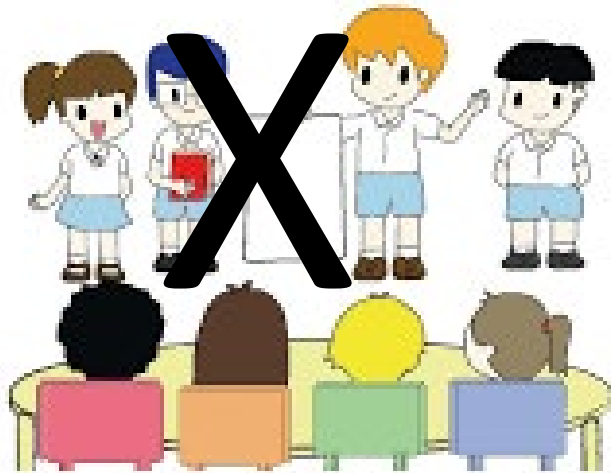Level 1 (Poor): The use of terminology is imprecise or inappropriate.

Level 2 (Adequate): The use of terminology is adequate but could be improved in some cases.

Level 3 (Good): The use of terminology is good, and the student demonstrates an appropriate mastery of the specific language of the course.

Level 4 (Excellent): The use of terminology is excellent. The student demonstrates an advanced and accurate mastery of the terminology related to the course.

EXAM -4

group presentation (15%)

1 group presentation +
Q&A

I would like to remind you that in the "exam info" folder on the STEM Moodle platform (https://stem.elearning.unipd.it/) for this course, you can find all the necessary information. The final grade consists of two parts: Maximum grade: 30/30 with honors:

0-5/30 -> Journal Club
0-25/30 -> written test

If any of you have not participated in the Journal Club activity during the course, you can recover the 5 points by preparing a report on one of the papers used for the presentations, which you can download from the Moodle folder (Journal Club 2024). The report should be sent to claudia.agnini@unipd.it or alternatively upload on moodle STEM no later than the day before the exam date.