

Course number	U-LAS70 10001 SJ50				
Course title (and course title in English)	ILASセミナー：無脊椎動物の古生物学 ILAS Seminar :Invertebrate Paleontology		Instructor's name, job title, and department of affiliation	Hakubi Center for Advanced Research Program-Specific Assistant Professor,TAJIKA AMANE	
Group	Seminars in Liberal Arts and Sciences		Number of credits	2	Hours 30
Class style	seminar (Face-to-face course)	Year/semesters	2026・Intensive, First semester		Quota (Freshman) 5 (5)
Target year	Mainly 1st year students	Eligible students	For all majors		Days and periods Intensive The week ending late August or early September
Classroom				Language of instruction	English
Keyword	paleontology / invertebrates / fossils / earth sciences / rocks				
[Overview and purpose of the course]					
The course covers the evolution, systematics, and ecology of invertebrates with fossilizable hard parts within the context of Earth history. It provides an overview of the diversity and phylogeny of the most important taxa and discusses the interaction of biotic and abiotic factors that led to the modern biota. Participants also learn how marine invertebrates are important material for better understanding paleoenvironments and diversity. The course includes a short excursion in/near Kyoto, on which participants can observe and identify fossils.					
[Course objectives]					
- Gain an overview of the ecology, evolution, and body plan of major invertebrate taxa throughout Earth history. - Identify and systematize the major invertebrate fossil taxa. - Apply the fundamentals of paleontological analysis to interpret fossil data and paleoenvironments.					
[Course schedule and contents)]					
This crash course is scheduled for sometime late August-early September (exact dates TBD). This course consists of lectures and practical sessions for every topic covered. 1. Introduction, Protista and Porifera 2. Cnidaria 3. Gastropoda 4. Brachiopoda and Graptolithina 5. Arthropoda 6. Bivalvia 7. Cephalopoda 8. Echinodermata 9. Methods in invertebrate paleontology 10. Students' presentation					
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One-day excursion near/in Kyoto (date TBD)

[Course requirements]

None

[Evaluation methods and policy]

Active participation: 40%

Quiz (small exams for each topic): 20%

Report: 20%

Presentation: 20%

[Textbooks]

Not used

[References, etc.]

(References, etc.)

Introduced during class

[Study outside of class (preparation and review)]

No special preparation or background required.

[Other information (office hours, etc.)]

This course does NOT include the collection of fossils in the field, but participants will get hands-on experience with fossils in the practical sessions.

[Essential courses]