

DyOc Course Examination 2024

Mark will be based on

1. **Planning, executing, and reporting on a virtual expedition** (30%)

During the course, you will work in groups to plan and execute an expedition with a virtual research ship in python. The python assignments during the first 6 tutorials help you prepare for this. As a group, you will create a slide-deck with the outcomes of your virtual expedition, and present that during one tutorial.

2. **Writing a science communication article** (20%)

During the course, you will work individually to write a popular science article about the virtual expedition. You will give and receive peer-feedback on a first draft, and hand in the final version.

3. **Final exam** (50%)

The final exam will be on Fri 12 April.

More info on the virtual expedition:

- As part of a UU-NIOZ project, we are developing a [Virtual Ship for teaching](#). You will use this python tool in class.
- You will be assigned in groups of 3-4 students at the start of tutorial 2 (on 16 February).
- Each group will [write a Code of Conduct](#) for their group at the end of tutorial 2.
- There will be a list of possible regions/topics to work on for your virtual expedition. With your group, you will choose three preferred regions/topics from the list (or swap one of these three for your own region/topic) and hand in this top-three by Monday 19 February 17:00 (*strict deadline!!*).
- On Wednesday 21 February you will hear which region/topic you have been assigned. You can start to read literature on your region and will then have to hand in a planned research question before Monday 26 February 17:00.
- With your group, you must write an expedition plan, in which you identify what oceanographic measurements you want to take where, and hand that in before Monday 4 March 17:00.
- During tutorial 7 (6 March), you can start with the execution of your virtual expedition.
- With your group, you give a 15-minute presentation about the results of their expedition during tutorial 12 (22 March). You must upload that presentation before Thursday 21 March 17:00.
- Grade is based on the slides and presentation (rubric will be provided). How the grade is divided between group members is based on Code of Conduct.

More info on the science communication article assignment:

- You will write a popular scientific article about the virtual expedition.
 - This is an individual assignment.
 - The length of the article should be between 400 and 700 words.
 - The audience of your science communication article are Physics BSc students.

- You need to include and refer to the findings/results of at least two scientific articles as background.
- For an example of the style you could use, check out <https://physicsworld.com/a/20000-pings-under-the-sea/> (although at almost 3,000 words that article is way longer than expected here), or <https://blogs.scientificamerican.com/expeditions/to-hades-and-back-exploring-the-deepest-part-of-the-ocean/>
- You are allowed to use Generative AI to create photos of the expedition (but only for photos; no other uses of Generative AI are allowed!)
- Submit a first draft of the article to Blackboard by 27 March 17:00.
- Every student will provide formative feedback for two other articles. Deadline is 2 April 17:00. This formative feedback will be graded and will count 25% of the mark for this assignment.
- You will incorporate the formative feedback where appropriate into a final version of the article and submit that as a pdf on Blackboard by 5 April.
- The articles will be graded by the lecturer and the Teaching Assistants

Pass criteria

Students with a minimum mark of 5.5 for the written exam *and* for the weighted final average of the three components pass. Students whose final mark and written exam mark is between 4.0 and 5.5 can participate in the retake exam.