

Appendix

Details of survey questions

Individual phase

Workload

Approximately how many hours did you spend on average on the assignments before the seminar? (Provide the answer as the nearest whole number of hours)

Free numerical answer

Individual work

Below is a series of statements where you should indicate how much you agree with each one.

- It was useful for me to have to do the tasks individually first
- I learned a lot from doing the tasks individually
- I felt a lot of pressure to find the correct answer to the tasks myself
- I felt I could reason about the task without necessarily having to find the correct answer

Options: Strongly disagree, Disagree, Neither agree nor disagree, Agree, Strongly agree

Collaboration with Others

Did you collaborate with others on the assignments before the seminar? This includes, among other things, discussions to clarify questions and checking if you arrived at the same answer.

Note: This question is only for improving the assignments for next year and will not affect you in this course.

Options: Not at all, To a small degree, To some degree, To a large degree

Reasons to collaborate

(These items were only displayed if "To a small extent or To some extent or To a large extent" is selected in the question "Collaboration with Others.")

Why did you collaborate with others?

Below is a list where you answer how often you collaborated to achieve different things.

- To understand what the task was asking
- To get help in making a plan to solve the task
- To learn more
- To get help with calculations
- To compare answers
- To move forward when I was stuck

- Because I was short on time

Options: Not at all, To a small degree, To some degree, To a large degree

Did you have any other reasons for collaborating or ways of collaborating that are not included in the options above?

Free text answer

Comments on individual phase

Is there anything you would like to comment on regarding the individual part of the assignments? Or any answers you would like to elaborate on?

Free text answer

Group Discussions and Self-Assessment

Seminar Discussion

Below is a series of statements where you should indicate how much you agree with each one.

- I learned a lot from discussing the tasks with fellow students
- I actively participated in the discussions
- I helped the others in the group understand the tasks and solutions
- I received good help from the others in understanding the tasks and solutions
- I could feel uncomfortable when I had been unable to solve the tasks

Options: Strongly disagree, Disagree, Neither agree nor disagree, Agree, Strongly agree

Comments on group discussions

Is there anything you would like to comment on regarding the discussion part of the assignments? Or any answers you would like to elaborate on?

Free text answer

Self-Assessment

Below is a series of statements where you should indicate how much you agree with each one.

- I understood what I had done well and what I needed to improve on after correcting my assignment
- It was useful to write down what I needed to continue working on
- I have done something to address the challenges I identified in the self-assessment
- The reflection form/post-work helped me think about what I had learned and still needed to work on after the assignment
- The questions on the reflection form/post-work helped me reflect on my own learning
- It was uncomfortable to have to reflect on my own learning
- I learned more from correcting my own assignment than I do from the TA's feedback on a regular assignment
- It was useful to receive written comments on the assignment from the teaching assistant after the seminar

Options: Strongly disagree, Disagree, Neither agree nor disagree, Agree, Strongly agree

How did you work on the improvement potential you identified through the self-assessment? And did you do anything with the comments you received from the teaching assistant?

Free text answer

Comments on self-assessment

Is there anything you would like to comment on regarding the self-assessment of your own submission? Or any answers you would like to elaborate on?

Free text answer

Overall

Learning Outcomes

Below is a series of statements where you should indicate how much you agree with each one.

- I have become better at collaborating with other students
- I have become better at solving new problems
- I have become better at evaluating my own understanding of the subject matter
- I achieved good learning outcomes compared to the time I spent on the assignments

Options: Strongly disagree, Disagree, Neither agree nor disagree, Agree, Strongly agree

Preference

Do you prefer this form of written work requirements or traditional assignments? By "traditional" submission, we mean an individual submission where you are finished after submitting it.

Options: Strongly prefer traditional, Prefer traditional, Fine with either, Prefer modified, Strongly prefer modified

What are the advantages of this form of submission compared to a traditional format?

Free text answer

What are the disadvantages of this form of submission compared to a traditional format?

Free text answer

Problem-Solving Strategies

In the course, emphasis has been placed on following a four-step problem-solving strategy: interpreting the task, making a plan, executing the plan, evaluating the answer.

Did you use the strategy when solving the tasks on the assignments?

Options: Yes, I used it a lot, Yes, I used it a little/sometimes, No, I only used it when writing up the solution, No, I never used it

Why and how did you use the strategy when solving problems? This item is only displayed if "Yes, I used it a lot or Yes, I used it a little/sometimes" is selected in the question "Did you use the strategy when solving the tasks on the assignments?"

Free text answer

Why did you choose not to use the problem-solving strategy on the assignments?

This item is only displayed if "No, I only did it when writing down the tasks or No, I never used it" is selected in the question "Did you use the strategy when solving the tasks on the assignments?"

Free text answer

Comments on the assignments as a whole

Do you have any comments on the assignments as a whole? Or any answers you would like to elaborate on?

Free text answer