



## Ecology for Fish Management and Conservation BI1340, 10226.2021

15 Hp  
Pace of study = 100%  
Education cycle = Advanced

### Evaluation report

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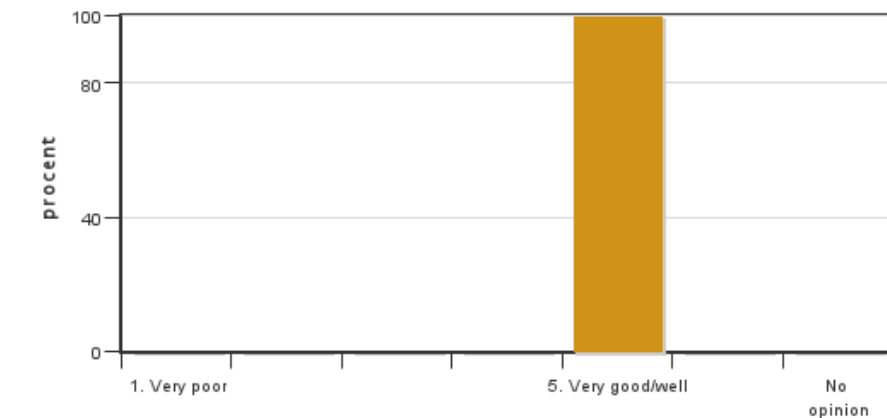
**Evaluation period: 2020-10-25 - 2020-11-15**

Answers 3  
Number of students 6  
Answer frequency 50 %

### Mandatory standard questions

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#### 1. My overall impression of the course is:

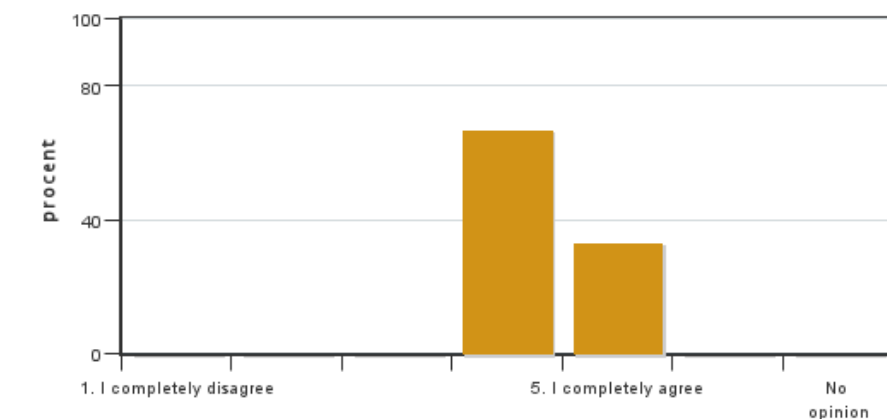


Answers: 3  
Medel: 5,0  
Median: 5

1: 0  
2: 0  
3: 0  
4: 0  
5: 3

No opinion: 0

#### 2. I found the course content to have clear links to the learning objectives of the course.

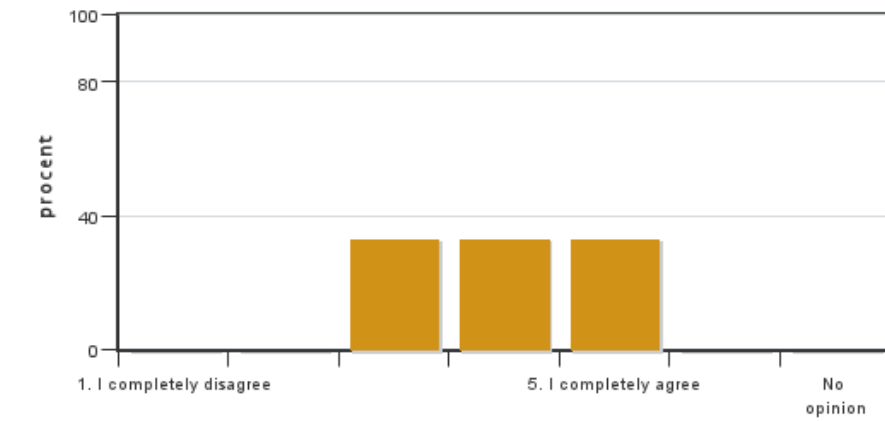


Answers: 3  
Medel: 4,3  
Median: 4

1: 0  
2: 0  
3: 0  
4: 2  
5: 1

No opinion: 0

#### 3. My prior knowledge was sufficient for me to benefit from the course.

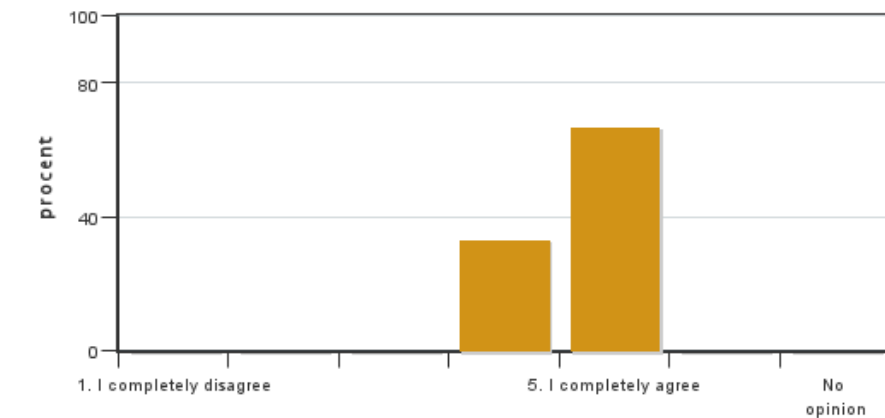


Answers: 3  
 Medel: 4,0  
 Median: 4

1: 0  
 2: 0  
 3: 1  
 4: 1  
 5: 1

No opinion: 0

**4. The information about the course was easily accessible.**

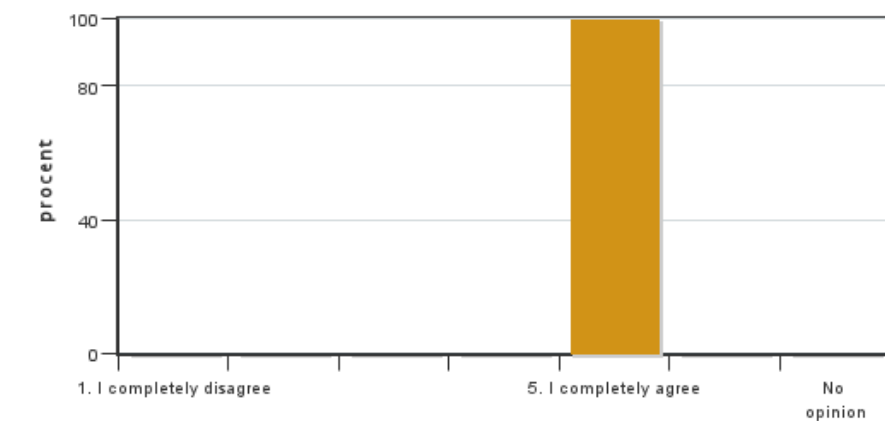


Answers: 3  
 Medel: 4,7  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 1  
 5: 2

No opinion: 0

**5. The various course components (lectures, course literature, exercises etc.) have supported my learning.**



Answers: 3  
 Medel: 5,0  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 0  
 5: 3

No opinion: 0

**6. The social learning environment has been inclusive, respecting differences of opinion.**



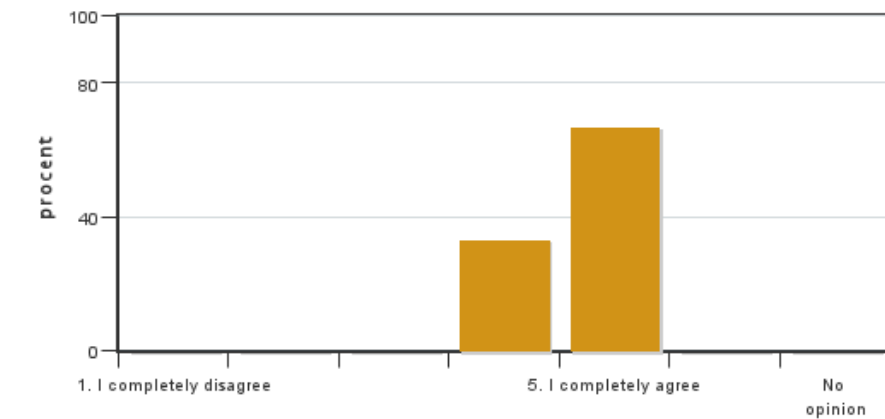
Answers: 3  
 Medel: 5,0  
 Median: 5

1: 0  
 2: 0  
 3: 0  
 4: 0  
 5: 3

No opinion: 0



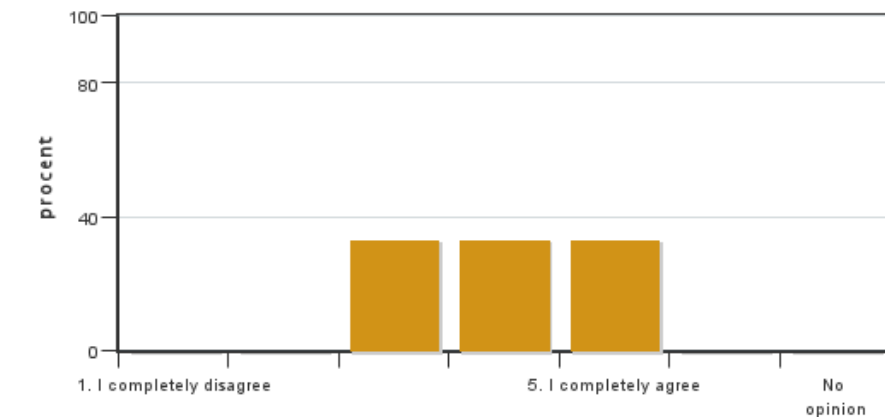
7. The physical learning environment (facilities, equipment etc.) has been satisfactory.



Answers: 3  
Medel: 4,7  
Median: 5

1: 0  
2: 0  
3: 0  
4: 1  
5: 2  
No opinion: 0

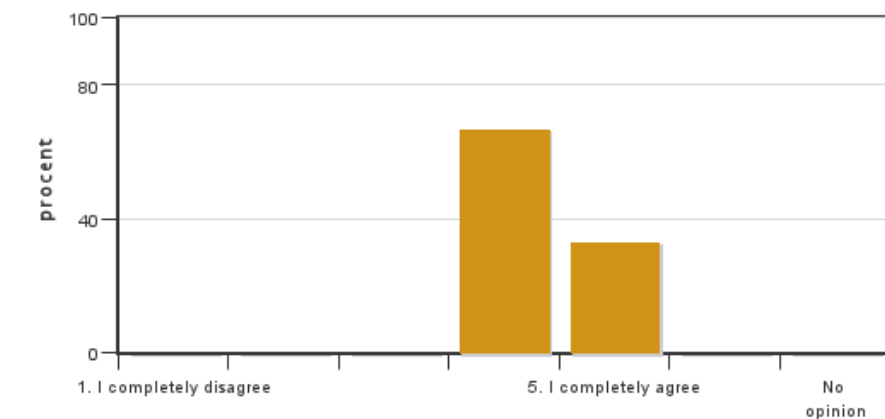
8. The examination(s) provided opportunity to demonstrate what I had learnt during the course (see the learning objectives).



Answers: 3  
Medel: 4,0  
Median: 4

1: 0  
2: 0  
3: 1  
4: 1  
5: 1  
No opinion: 0

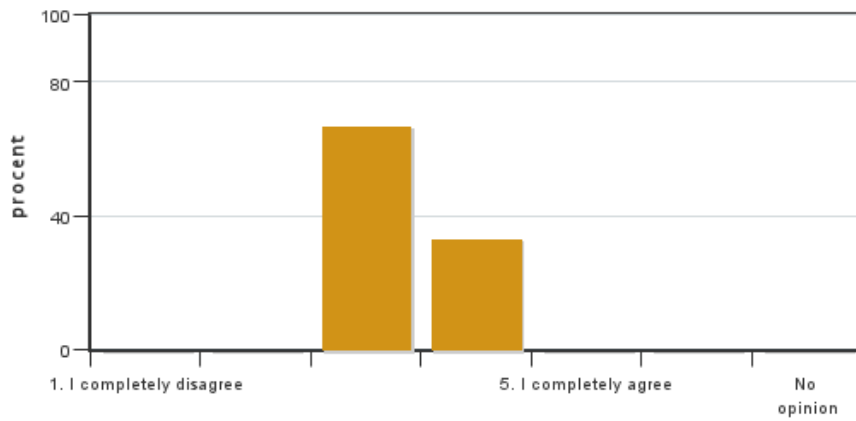
9. The course covered the sustainable development aspect (environmental, social and/or financial sustainability).



Answers: 3  
Medel: 4,3  
Median: 4

1: 0  
2: 0  
3: 0  
4: 2  
5: 1  
No opinion: 0

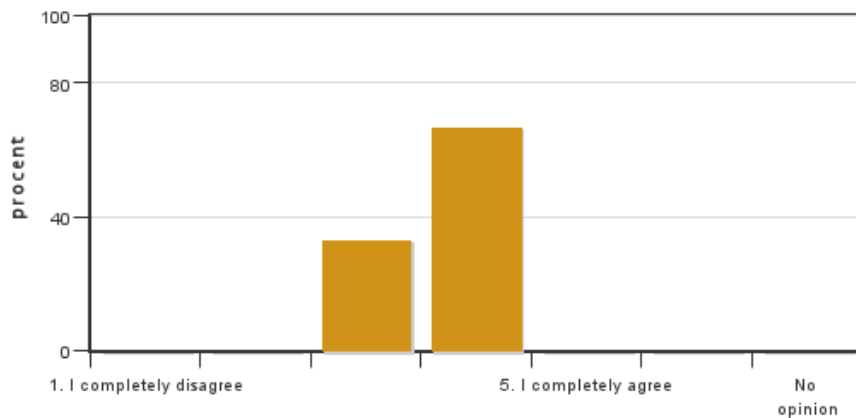
10. I believe the course has included a gender and equality aspect, regarding content as well as teaching practices (e.g. perspective on the subject, reading list, allocation of speaking time and the use of master suppression techniques).



Answers: 3  
 Medel: 3,3  
 Median: 3

1: 0  
 2: 0  
 3: 2  
 4: 1  
 5: 0  
 No opinion: 0

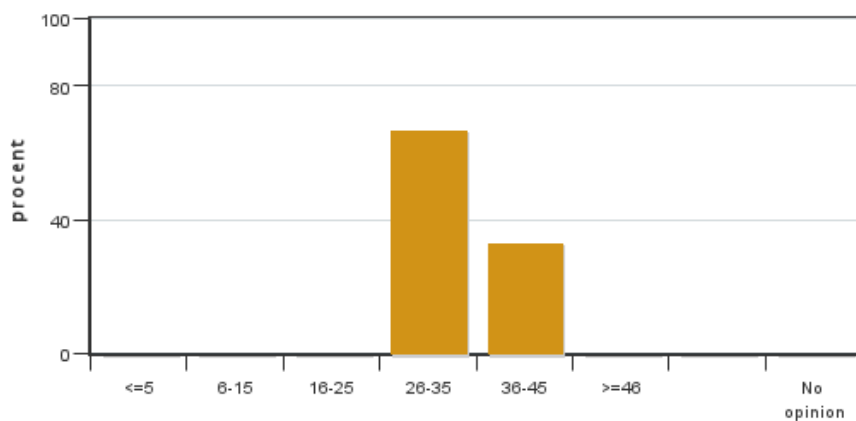
**11. The course covered international perspectives.**



Answers: 3  
 Medel: 3,7  
 Median: 4

1: 0  
 2: 0  
 3: 1  
 4: 2  
 5: 0  
 No opinion: 0

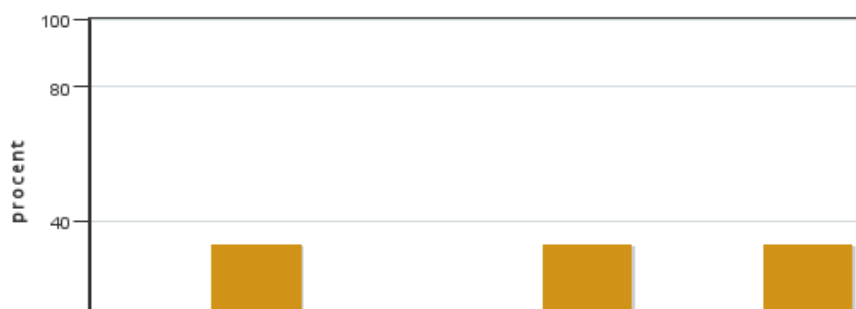
**12. On average, I have spent ... hours/week on the course (including timetabled hours).**



Answers: 3  
 Medel: 33,3  
 Median: 26-35

≤5: 0  
 6-15: 0  
 16-25: 0  
 26-35: 2  
 36-45: 1  
 ≥46: 0  
 No opinion: 0

**13. If relevant, what is your overall experience of participating in all or part of your course online?**



Answers: 3  
 Medel: 3,5  
 Median: 2

1: 0  
 2: 1  
 3: 0  
 4: 0  
 5: 1  
 No opinion: 1

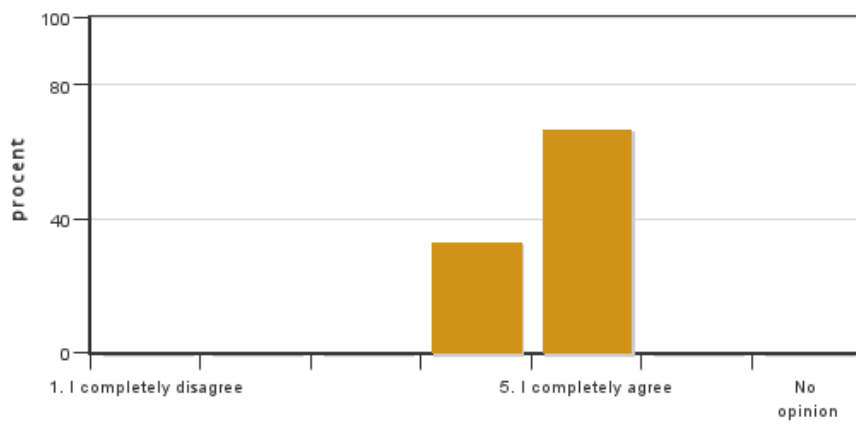


14. If relevant, please share what worked well when participating in teaching on distance

15. If relevant, please share what worked less well when participating in teaching on distance

## Additional own questions

16. The course literature was relevant and a useful support for my learning

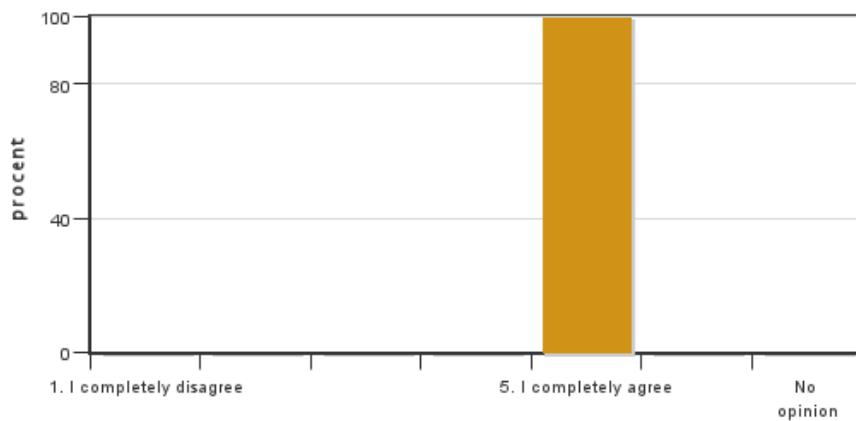


Answers: 3  
Medel: 4,7  
Median: 5

1: 0  
2: 0  
3: 0  
4: 1  
5: 2

No opinion: 0

17. I have learnt a lot from our work and feedback on the case studies

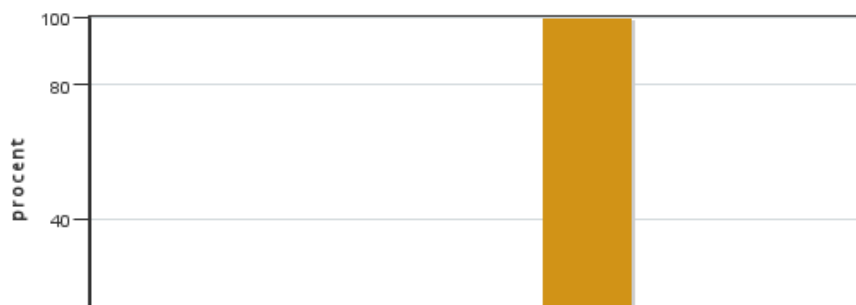


Answers: 3  
Medel: 5,0  
Median: 5

1: 0  
2: 0  
3: 0  
4: 0  
5: 3

No opinion: 0

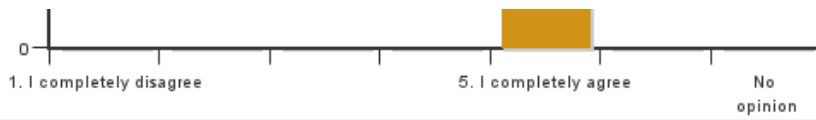
18. The field exercises were valuable for my learning



Answers: 3  
Medel: 5,0  
Median: 5

1: 0  
2: 0  
3: 0  
4: 0  
5: 3

No opinion: 0



19. What was particularly good with the course?

19. How can the course be improved?

## Course leaders comments

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The course aims to develop the student's knowledge of ecology in general, and fish ecology specifically, and apply such knowledge to real case studies relating to fish management and conservation. The overall impression of the course among students taking part of the evaluation was very good (average rating 5 out of 5). They especially appreciated the hands-on training in the field and found that the different teaching activities and literature supported their learning and appreciated the open social learning environment.

Still, there is scope for improvements. The evaluation suggests there is a need to provide more and broader international perspectives and we will thus add more international example in the coming years. Students found themselves to have most of the prior knowledge needed, but we will keep the introductory lecture on concepts in ecology for repetition and consider adding an introduction on more of the concepts that are specific to aquatic ecology. Students generally agreed that the examination reflected what they had learned, but some also identified a need to clarify questions and we will thus put more effort into the wording of questions to increase clarity. Finally, I recognize that some students experienced that the small part of the course that went online due to covid to be a bit stressful.

The students on average spent 33 hours on course work per week, meaning there is some scope to increase their work load with the goal to make them meet the learning outcomes even better. In this context, it was also mentioned that more time may be required to understand and complete the more theoretical exercises.

In summary, the students seem appreciative of the course in general and especially the inclusive nature and hand-on field experience. We will continue to build on these factors that have been successful so far and work to e.g. improve the diversity of international examples and make sure the content and time for computer exercises are matching.

## Student representatives comments

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Ekologi för fiskevård BI1340, 10226.2021 2020-08-31 - 2020-11-01

Värderingsperiod: 2020-10-25 - 2020-11-15 Antal svar 3 Studentantal 6 Svarsfrekvens 50 %

*Independent comments are included below.*

I enjoyed this class and learned a lot. (5) A really kind and interactive course leader.

I liked the 2-3 scientific articles per course. (5)

A very nice group of students and a nice, small class size. (5)

The group rooms were not adequately cleaned nor have good ventilation concerning corona. This was stressful and disappointing, as well as that Ullshus did not respond with a constructive response when these short-comings were politely reported to them. Instead, Ullshus threatened to close all group rooms if students gathered in group rooms in too high numbers. This only discourages reporting of inadequate corona prevention by students. Ullshus refused to install hand disinfectant near group rooms and gave no specific guidance on an appropriate number of students per group room. Students were told to go to a restroom in order to collect disinfectant and then take this to the group room in order to clean between student groups. SLU Aqua's leaders, however, were very supportive and advocated on the part of their students. The main classroom was very good. (5)

home exam where some questions difficult to understand (3)

Additionally, the exam feedback was not very transparent. How was a final grade reached? How many points were awarded per question? Many questions were not commented on individually but rather a "correct" answer given which was disappointing when there are so few students. I would like to know what each examiner thought of my personal test answers, what was lacking, what was good. It might be better to grade the final project as well rather than base the entire course grade on the home exam. The final project was a larger portion of the course and would be a good balance to the home exam.

I think a lecture or two from Asia, Africa & S. America would add a nice perspective. (3)

There could be more female lecturers included in the course. (3)

We did not do distance learning that often during this course. When we did, I found it very stressful as my zoom links did not work, I missed parts of lectures and missed human contact. (2)

14. Vad fungerade väl i undervisningen på distans?

We were split in small discussion groups and later had a discussion with the teacher. The group was small ca 5-6 people. (0)

lectures (0)

Lecturers were understanding and tried to be flexible. (0)

15. Vad fungerade mindre väl i undervisningen på distans?

Technical problems with connections that are normal in every online call. (0)

home exam (0)

My zoom connection was never working right & I missed parts of lectures. I found that very stressful. Sitting at home was very lonely. I missed the small interactions during breaks. As I do not have an office space at home, my back hurt. Outdoor noises were distracting. (0)

19. What was particularly good with the course? Enbart kommentar. Antal svar: 3

The field trips were very informative, and all teachers had well prepared lectures, relevant for the course. I felt the course leader cared about the course & students. The course was well-organized. The field trips were really good experiences with helpful & knowledgeable people.

20. How can the course be improved? Enbart kommentar. Antal svar: 3 Giving more background exercises on R before start of class. Allocating R analysis outside the field trips, and instead as an extra session on campus. A few more fish ecology lectures near the last 1/3 of the course. A better introduction to R. Include a few more women researchers. Discuss news events concerning fish ecology.

The magister program could benefit from a separate short course in Excel and R.

We would have benefited from an introduction to Alvkarleby and the hatchery before going there. Both cars got lost going to Alvkarleby and went to the wrong station. It was hard to understand what was going on at Alvkarleby, the dam, the history of Vattenfall and stocking of fish, the hatchery and where we were without background information.

Fish tagging could be done first on dead fish before letting students tag and cut living fish.

A visit to Lansstyrelsen Gavleborgs fish people or a lecture by them would be great. We met people from there and from Sportfiskarna at the electrofishing training and the Lansstyrelsen people were very interactive and encouraging, liked speaking English and were curious about the course. Personally, I would like to hear about their jobs and what jobs are available.

There was a period where we did not meet Magnus for over a month. It would be nice to have even just a short update or check-in between the students and course leader during that time.

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Kontakta support: [support@slu.se](mailto:support@slu.se) - 018-67 6600