



NATUR-  
VETENSKAPLIGA  
FAKULTETEN

KURSSAMMANSTÄLLNING

*Datum* 2020-10-07

Biologiska institutionen  
Grund- och avancerad utbildning

Kursansvarig: Per Carlsson  
Antal studenter: 24  
Betyg: 8 Pass (G), 13 Pass w  
distinction (VG). Three students from  
LTH graded 3, 4 and 4, respectively.  
Sammanställt av: Per Carlsson

## Course analysis BIOR66 Water Management, spring 2020

### Summary of the course evaluation

Number of answers: 15 (63%). The course was fast adapted to the circumstances with the occurring covid-19, virus, meaning that all lectures were either recorded in PowerPoint and then placed on the course home page, or directly given on the zoom platform. All excursions and study visits were cancelled and replaced by either Power Point presentations or virtual excursions where the teachers were recording the important sites in nature, either by themselves or with the help of a professional film maker. The students were asked about how they perceived this transformation and this got the grade 4.4, meaning that the overall impression was that the transfer of the way the course was given had been successful. Some comments on this subject were: "Very good work from the teachers with so short time to adapt!!, The organization and structure of the course especially during these unexpected circumstances has been exceptional, It's been a lot of emails with information, sometimes you miss these emails and therefore miss the important information. The course has been a little messy and little dull with no excursions. But at the same time thats the situation. It has been done as good as it can be with the time given".

The grade from the students considering how satisfied they were with the course was also 4.3. Considering how the teachers and assistants motivated the students and gave good help and feed-

back, the grade was not as good; 3.8. The reason for this was that one group during the final projects on the course felt that they were a bit abandoned by one of the assistants. Exemplified by that it could take quite long time to answer questions from the students sent by mail, and that the assistant did not go with the group in the field (as with the other groups).

The students felt that the course had increased their subject knowledge (grade 4.6), especially concerning nutrient retention, biomanipulation, water treatment processes, river restoration and wetlands.

### Comments from the teachers team

The teachers on the course considered that the course went very well considering the circumstances.

### Evaluation of changes made since the previous course

According to the suggested changes from last year, the students were given a thorough lecture (and handouts) about how to structure a written report. This was appreciated by the students. We also gave the students some guidelines on what to look for during the peer-review of the individual projects by the students.

### Suggested changes for the next course

The next time the course is given, we hope to be back to normal teaching procedures. However, the experiences for us teachers during this course gives new thoughts about how teaching can be completed by on-line tools to give more flexibility when things get back to normal. As an example, the virtual excursion produces this year, might become valuable complements to real excursions in the future. This also goes for recorded zoom-lectures that can be used if a teacher gets sick and cannot give the lecture according to schedule. We plan to give more emphasis to assistants on the course to prioritize to answer questions from students so that the work pace is kept up. We will also inform the students that if they do not get help within a reasonable amount of time, they should contact the course leader or another teacher, instead of being passive about it.

## Other teachers

Anders Nilsson, Olof Berglund, Anders Persson (LU). Karin Jönsson (LTH). Teachers from outside LU: Per Nyström, Marika Stenberg, Pia Hertonsson (Ekoll AB), and several external specialists in water management, from the County Administrative Board in Skåne and municipalities (Trelleborg, Höör, Hörby) has been teaching either by using zoom or sending PowerPoint presentations to the course leader. Some have also guided students in smaller groups (2-3 students) in the field during the final practical projects.