

## Comments to the course evaluations KEM21 VT2022 by the course responsible.

The comments are based on the following material:

The written course evaluation (copy enclosed).

Midterm course evaluation meeting with the course representatives (copy enclosed).

Final course evaluation meeting with the course representatives (copy enclosed).

7 out of 9 students handed in the course evaluation.

7 out of 9 students passed the course after the exam and the resit (4 VG).

Notably:

- 1) The students are very happy with the course – the course evaluation has never been better!
- 2) The workload is considered to be high by many students. However, the course has a slow start during the first 1.5 week, meant for revision of previous courses for those that need. Difficult also because the students have very different backgrounds. Most students were finished with the lab course 1.5-2 weeks ahead of the schedule, leaving time for self-studies.
- 3) The students' interest in organic chemistry had increased.
- 4) The students say that they have learned a lot!
- 5) The revision exercises were much appreciated, and many students did them.
- 6) Both lectures and exercise sessions were appreciated
- 7) Good atmosphere in the course – as always!
- 8) The students had really worked a lot together to prepare laborations and exercises in advance.
- 9) Many students have “sometimes” prepared the lectures/self-study sessions/exercise sessions in advance. It should be every time!
- 10) The course is intense.
- 11) The lab course got very good evaluation.
- 12) It was appreciated that there now are intermediate dead-lines in the lab course – not only a final ones!
- 13) The course representatives wanted to remove the anyway too short part about organometallic chemistry with multistep synthesis and more retrosynthetic analysis.

Actions to be taken

- 1) In the long-term: persuade the Study board at KILU to remove the organometallic part – Send it to the coordination chemistry course – and let us have multistep synthesis training and more retrosynthetic analysis in KEMM21.

Lund 2022-06-06

Kenneth Wärnmark

**Course evaluation "organic chemistry, advanced course"  
(KEMM21), 15 hp, Spring 2022**

**To be handed in no later than Friday, March 18, 2022. Many thanks for helping out improving the course!**

You can hand them in to me during class or in my mail box at the department.  
Anonymity will be guaranteed.

**How do you evaluate the different parts (circle one alternative)**

**Pericyclic reactions, physical organic chemistry**

How relevant is this part?	very little	little	<del>///</del> much	<del>///</del> very much
What about the quality of what you learned	bad	acceptable	<del>///</del> good	<del>///</del> very good
Quantity	<del>1</del> too little	<del>///</del> just right		too much
Text book	bad	<del>///</del> acceptable	<del>///</del> good	<del>///</del> very good
Your performance	bad	<del>///</del> acceptable	<del>///</del> well	very well

**Organic synthesis**

How relevant is this part?	very little	little	much	<del>///</del> <del>///</del> very much
What about the quality of what you learned	bad	acceptable	<del>///</del> good	<del>///</del> very good
Quantity	<del>1</del> too little	<del>///</del> just right		<del>///</del> too much
Text book	bad	acceptable	<del>///</del> good	<del>///</del> very good
Your performance	bad	<del>///</del> acceptable	<del>///</del> well	very well

**Exercise sessions**

How relevant is this part?	very little	little	<del>1</del> much	<del>///</del> <del>1</del> very much
What about the quality of what you learned	bad	acceptable	<del>///</del> good	<del>///</del> very good
Quantity	<del>1</del> too little	<del>///</del> just right		too much
Your performance	<del>1</del> bad	acceptable	<del>///</del> well	<del>1</del> very well

**Revision exercises (quizzes).**

Have many of those have you done 0% <sup>||</sup> 25% 50% <sup>|</sup> 75% <sup>||</sup> 90% <sup>||</sup> 100%

How relevant is this part? very little <sup>|</sup> little <sup>|||</sup> much <sup>||</sup> very much

What about the quality of what you learned bad <sup>|||</sup> acceptable <sup>||</sup> good <sup>|</sup> very good

Quantity <sup>|</sup> too little <sup>|||</sup> just right <sup>||</sup> too much

Your performance <sup>|||</sup> bad acceptable <sup>||</sup> well <sup>|</sup> very well

**Lab-course.**

How relevant is this part? very little little much ~~|||~~ <sup>||</sup> very much

What about the quality of what you learned bad acceptable good ~~|||~~ <sup>||</sup> very good

Quantity too little ~~|||~~ just right <sup>|</sup> too much

Writing of lab. reports too little <sup>|</sup> just right ~~|||~~ <sup>|||</sup> too much

Your performance bad <sup>|</sup> acceptable <sup>|||</sup> well <sup>||</sup> very well

**Details (circle one alternative)**

Have you prepared the lectures/self-study sessions by reading the corresponding chapter the textbook in advance? <sup>||</sup> never <sup>|</sup> rarely <sup>||</sup> sometimes <sup>|</sup> always

Have you prepared the exercises in advance? never rarely ~~|||~~ sometimes <sup>||</sup> always

Have you prepared the laborations in advance? never rarely sometimes ~~|||~~ <sup>||</sup> always

**Comments**

*Stressful but that is nothing new to this course.*

## Summary (circle one alternative)

What is your opinion about the ambition of this course

too low      low      /// ok      /// high      / too high

Have your previous courses in organic chemistry prepared you for this course?

~~///~~ yes      // no

What about the amount of work?

too little      /// ok      // too much

Has the course fulfilled your expectations?

/// yes      / no

After this course my interest in organic chemistry has

decreased      /// not changed      /// increased

What do you think about the atmosphere in the course?

very bad      bad      ok      / good      /// very good

Try to summarize the course in **one** word:

*insightful, labourious, challenging, Advanced, Detailed, Fantastic, interesting*

What has been good in the course?

*The lab and the structured lectures. The labs have been good practise on how to perform advanced synthesis and has given one valuable knowledge that can be used in the future (problem solving, trial and error etc). Exercises have been very good, one is forced to learn the concept at once. Set deadlines for the reports have been appreciated, learned a lot. Exercises. The experimental details, some new reactions, exercises, lab work, tips and tricks in synthesis (regioselective enolate alkylation, PGI-). Exercise sessions and lectures, lab. colleagues, reviews.*

What has not been good in the course?

*The amount of new things that was introduced but very little time to digest it, the amount of workload, lab and theory. The amount of time vs workload. Even if one prepared exercises in advance/quizzes one felt that the theoretical part was too much to take in prior to the exam. I did not have time to study during the lab course which took a lot of time. Nothing, too little concentration on organic synthesis/retrosynthesis in exercises and little in course in course lectures, physical chemistry part was right in the middle between 2 org. chem. parts. Lab course taking up too much time so there is not enough time for revising the lecture material continuously, stressful long lab reports*

What would you like to change?  
somewhat cut down the amount of work to one week less of things to learn as we could then use to revise the material. I would appreciate if KW could go through the quizzes before starting the next lecture. Maybe shorter with assessments, Lecture notes. The way of presenting teaching materials. Add more retrosynthetic exercises/molecular design. Move the physical chemistry part to the end or to the beginning. Add even more named reactions and tricks in synthesis. A bit less lecture material, mainly in the end of the course.

What is missing?  
nothing. Perhaps one 'revision' lecture at the end of the course, to summarize the concepts. —, perhaps organometallic chemistry, more retrosynthetic thinking and training, that would be fine.

Is there any part of the course that you would like to remove?

No, unfortunately. The organometallic part, organometallic, no physical chemistry (I liked the explanation of other when it works, was accomplished with an example). But I did not find the mechanistic investigation part very relevant for this course. I would put it in additional instructions because it was good to know. A bit of end of material, it was a bit much.

Are there any laboratories that should be removed or changed?

The last lab (6) was in general unsuccessful for most students. Yes lab 6, Suzuki cross coupling. Although a good experience in "real life chemistry" re-trial and error given the time limit it was mostly stressful. Suzuki lab 6. Number of labs could decrease. No that was good.

Other comments (please use the back of this page if you need more space)

— All in all, it is a very intense course, perhaps it should be 30 credits and the labs/theory should be separated. Personally, I would prefer more exercises on one concept. When comparing old exam questions with exercise questions the level is much higher on the exam and exercises seem somewhat insufficient. —, overall I liked this course. It was not fully concentrated on synthetic organic chemistry but it made it more diversified and interesting.

Midterm course evaluation, KEMM21, 2022-02-18

**Course coordinator:** prof Kenneth Wärnmark

**Course representatives:** Sakina Khwaja, Robin Ekberg

The students finds it difficult to balance the time regarding both laboratory work and study of theory. Prof. Wärnmark is aware of this. The course is an advanced course in organic chemistry.

The deadlines which are set regarding lab reports are much appreciated from the students. The hand-out lab compendium is also much appreciated.

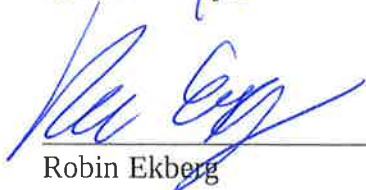
Regarding the balance lab work/theory, the students think it's difficult to manage full lab reports at the same time as learning the theory.

The exercise sessions are very appreciated, and it is very good to get the "direct feedback" on mechanistics and other theory.

The lectures are too much appreciated. It could be good with a reading list with exact pages in CGWW. Prof. Wärnmark says that the course is defined by the lecture notes, exercises, hand outs and quizzes.



Sakina Khwaja



Robin Ekberg

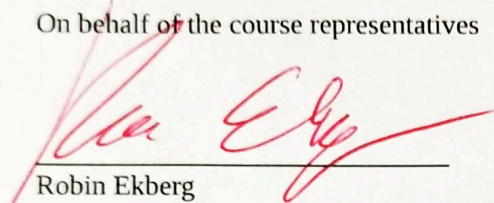


prof. Kenneth Wärnmark

Course evaluation KEMM21

The course representatives did not have any additional thoughts. The questions in the course evaluation handed out by prof. Wärnmark were mainly answered with a positive to very positive attitude regarding the course content. One topic discussed during the course evaluation was the organometallic part, which is suggested to be removed from the current curriculum.

On behalf of the course representatives



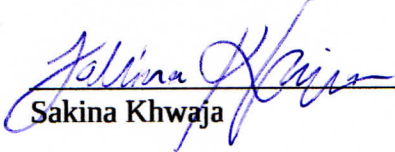
---

Robin Ekberg

## Course evaluation KEMM21

The course representatives did not have any additional thoughts. The questions in the course evaluation handed out by prof. Wärnmark were mainly answered with a positive to very positive attitude regarding the course content. One topic discussed during the course evaluation was the organometallic part, which is suggested to be removed from the current curriculum.

### Course representatives

  
Sakina Khwaja

---

Robin Ekberg