

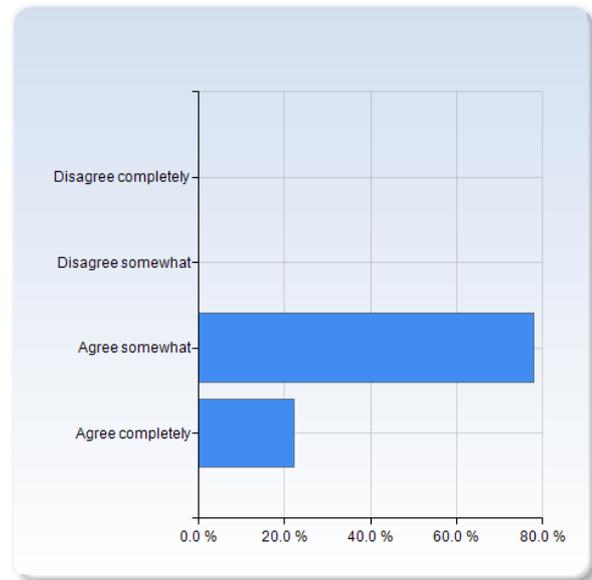
## MATB21 Spring 2020

Answer Count: 9

### Participation in the course

#### I have participated actively in the course

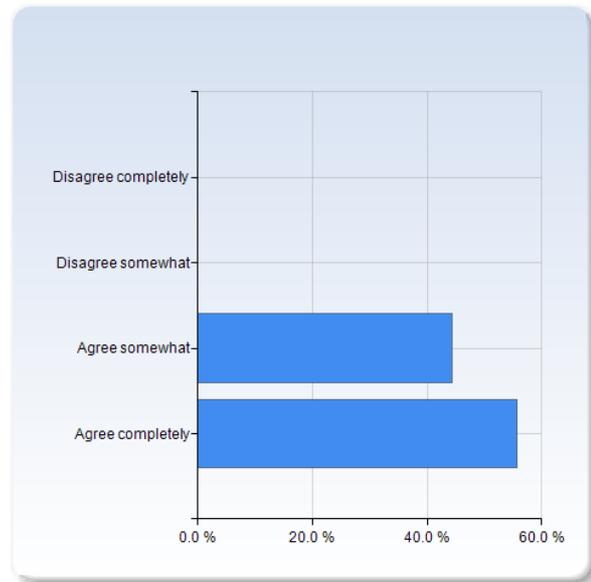
I have participated actively in the course	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	0 (0.0%)
Agree somewhat	7 (77.8%)
Agree completely	2 (22.2%)
Total	9 (100.0%)



I have participated actively in the course	Mean	Standard Deviation
	3.2	0.4

## My prior knowledge has been sufficient to be able to learn the contents of this course

My prior knowledge has been sufficient to be able to learn the contents of this course	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	0 (0.0%)
Agree somewhat	4 (44.4%)
Agree completely	5 (55.6%)
Total	9 (100.0%)

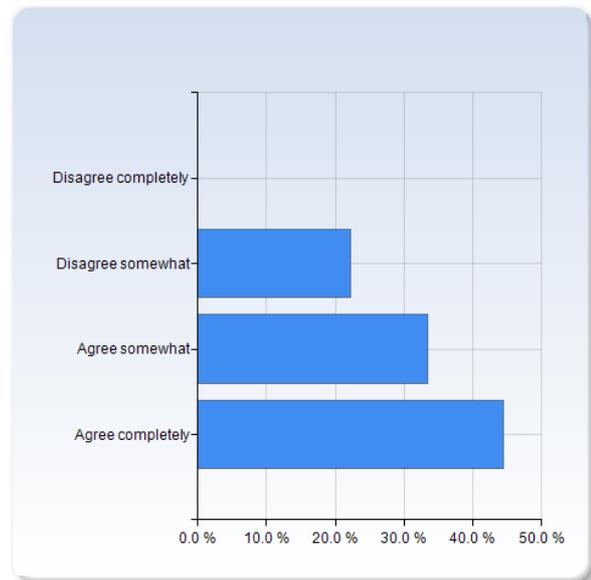


	Mean	Standard Deviation
My prior knowledge has been sufficient to be able to learn the contents of this course	3.6	0.5

## On the teaching of the course

### The way the course was taught worked well for me and helped me do my best

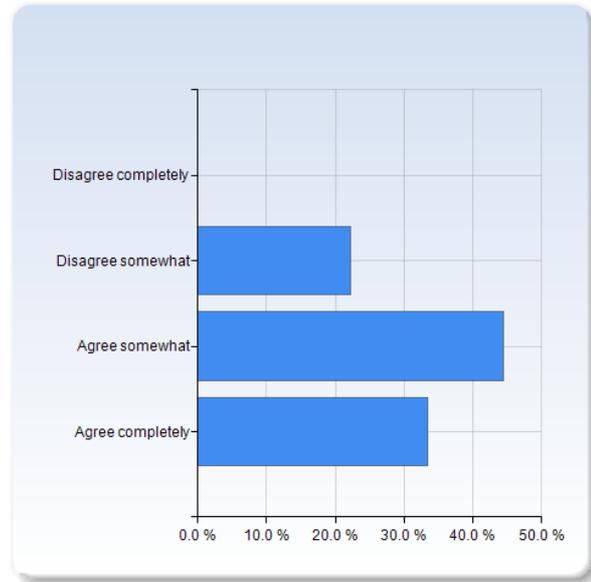
The way the course was taught worked well for me and helped me do my best	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	2 (22.2%)
Agree somewhat	3 (33.3%)
Agree completely	4 (44.4%)
Total	9 (100.0%)



	Mean	Standard Deviation
The way the course was taught worked well for me and helped me do my best	3.2	0.8

### It was clear throughout the course what was expected of me

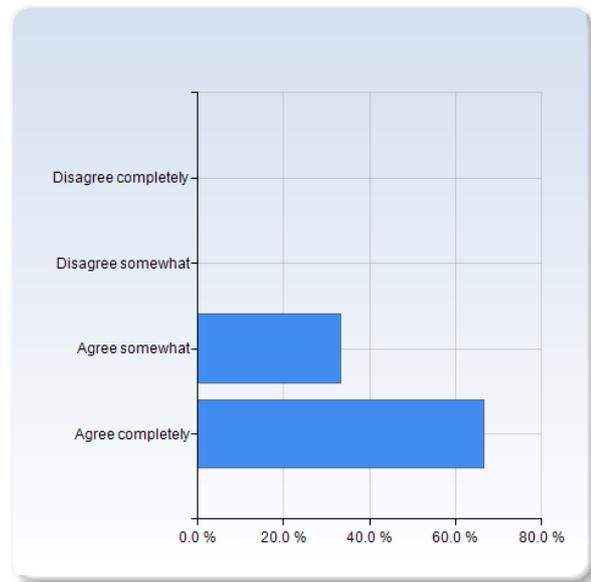
It was clear throughout the course what was expected of me	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	2 (22.2%)
Agree somewhat	4 (44.4%)
Agree completely	3 (33.3%)
Total	9 (100.0%)



	Mean	Standard Deviation
It was clear throughout the course what was expected of me	3.1	0.8

### The course had a reasonable workload

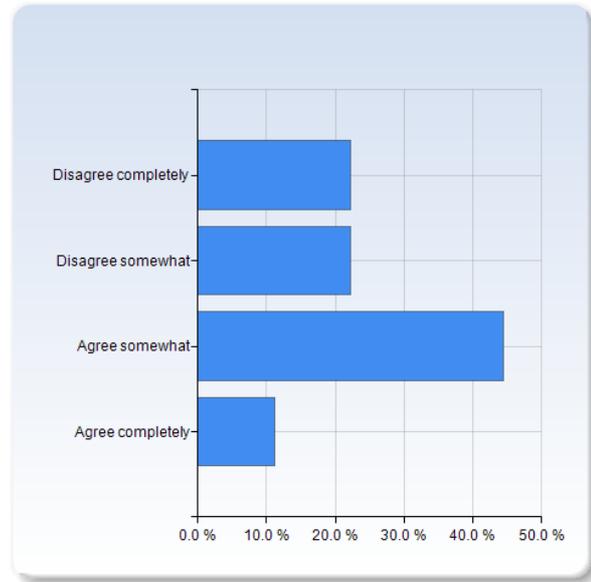
The course had a reasonable workload	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	0 (0.0%)
Agree somewhat	3 (33.3%)
Agree completely	6 (66.7%)
Total	9 (100.0%)



	Mean	Standard Deviation
The course had a reasonable workload	3.7	0.5

### The homework/hand-ins/projects really helped my learning

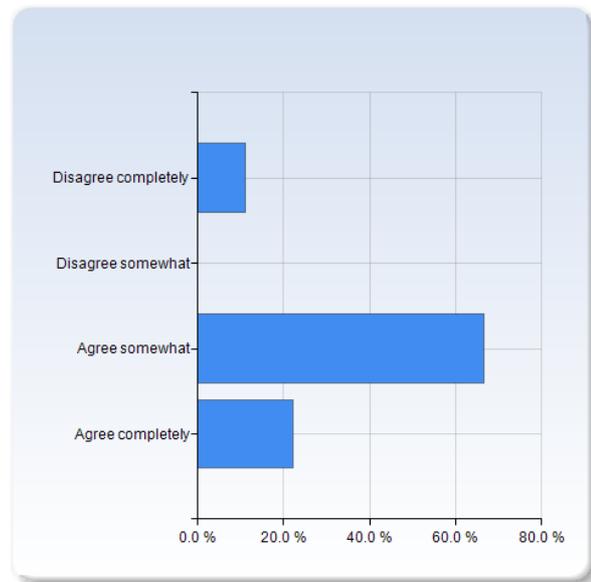
The homework/hand-ins/projects really helped my learning	Number of Responses
Disagree completely	2 (22.2%)
Disagree somewhat	2 (22.2%)
Agree somewhat	4 (44.4%)
Agree completely	1 (11.1%)
Total	9 (100.0%)



	Mean	Standard Deviation
The homework/hand-ins/projects really helped my learning	2.4	1.0

### The course literature really helped my learning

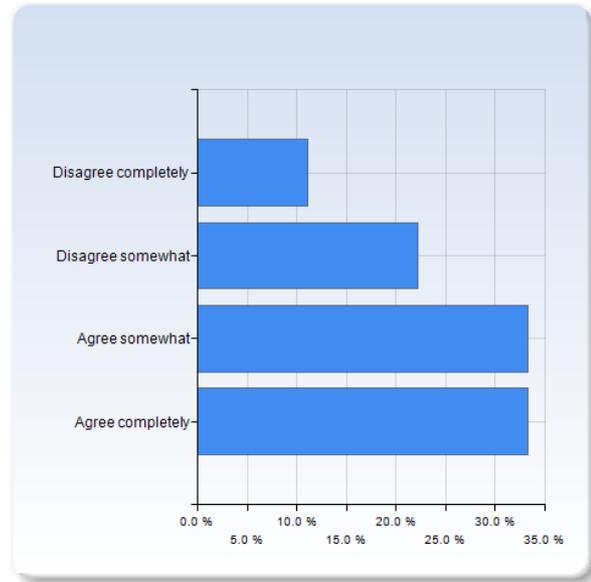
The course literature really helped my learning	Number of Responses
Disagree completely	1 (11.1%)
Disagree somewhat	0 (0.0%)
Agree somewhat	6 (66.7%)
Agree completely	2 (22.2%)
Total	9 (100.0%)



	Mean	Standard Deviation
The course literature really helped my learning	3.0	0.9

### The contents and level of the examination matched the contents and level of the course

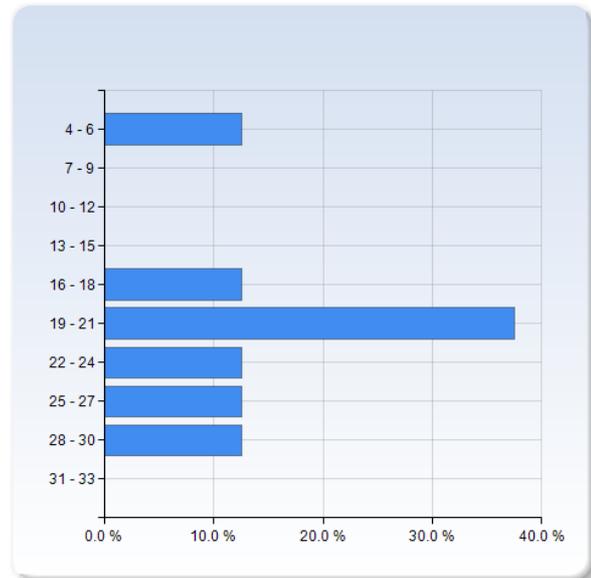
The contents and level of the examination matched the contents and level of the course	Number of Responses
Disagree completely	1 (11.1%)
Disagree somewhat	2 (22.2%)
Agree somewhat	3 (33.3%)
Agree completely	3 (33.3%)
Total	9 (100.0%)



	Mean	Standard Deviation
The contents and level of the examination matched the contents and level of the course	2.9	1.1

### On average, how many hours per week have I spent on this course (including lectures, problem sessions, etc):

On average, how many hours per week have I spent on this course (including lectures, problem sessions, etc):	Number of Responses
4 - 6	1 (12.5%)
7 - 9	0 (0.0%)
10 - 12	0 (0.0%)
13 - 15	0 (0.0%)
16 - 18	1 (12.5%)
19 - 21	3 (37.5%)
22 - 24	1 (12.5%)
25 - 27	1 (12.5%)
28 - 30	1 (12.5%)
31 - 33	0 (0.0%)
Total	8 (100.0%)

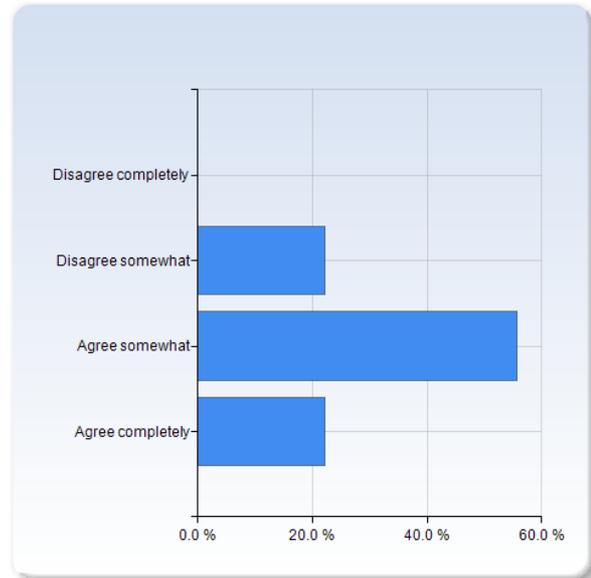


	Mean	Standard Deviation
On average, how many hours per week have I spent on this course (including lectures, problem sessions, etc):	20.3	7.0

## On the development of generic skills

### As a result this course, I feel confident about tackling unfamiliar problems

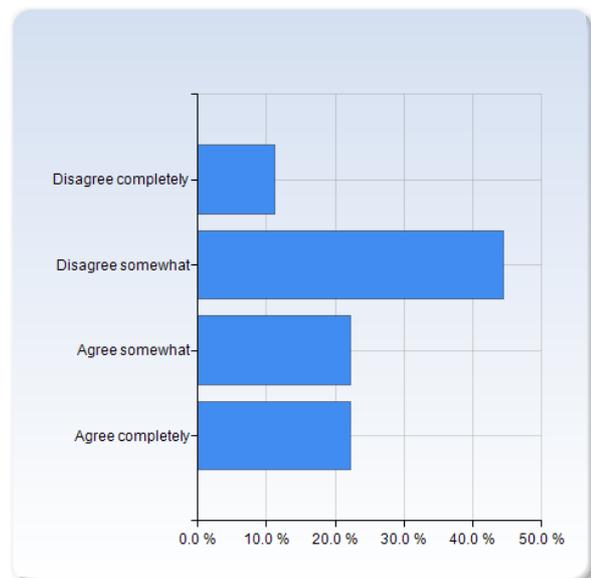
As a result this course, I feel confident about tackling unfamiliar problems	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	2 (22.2%)
Agree somewhat	5 (55.6%)
Agree completely	2 (22.2%)
Total	9 (100.0%)



	Mean	Standard Deviation
As a result this course, I feel confident about tackling unfamiliar problems	3.0	0.7

### As a result this course, I feel more confident working on mathematical problems as part of a group

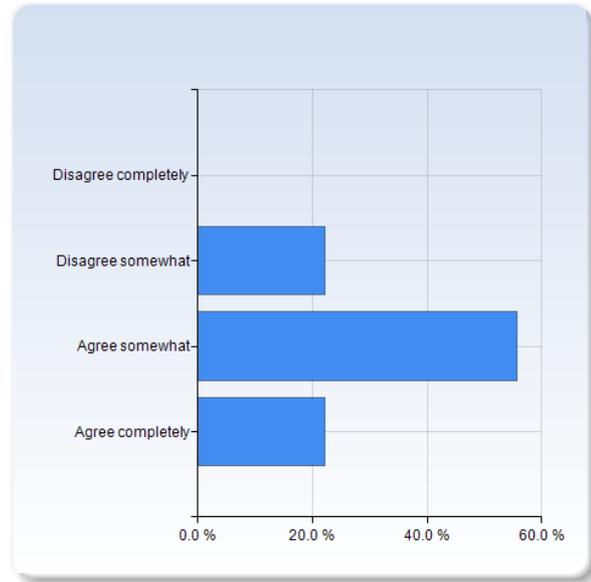
As a result this course, I feel more confident working on mathematical problems as part of a group	Number of Responses
Disagree completely	1 (11.1%)
Disagree somewhat	4 (44.4%)
Agree somewhat	2 (22.2%)
Agree completely	2 (22.2%)
Total	9 (100.0%)



	Mean	Standard Deviation
As a result this course, I feel more confident working on mathematical problems as part of a group	2.6	1.0

### The course has increased my ability to read a mathematical text

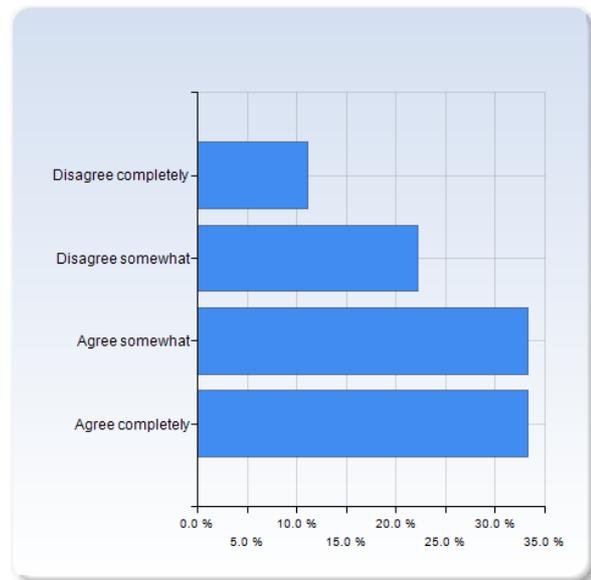
The course has increased my ability to read a mathematical text	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	2 (22.2%)
Agree somewhat	5 (55.6%)
Agree completely	2 (22.2%)
Total	9 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to read a mathematical text	3.0	0.7

### The course has increased my ability to communicate mathematics in writing

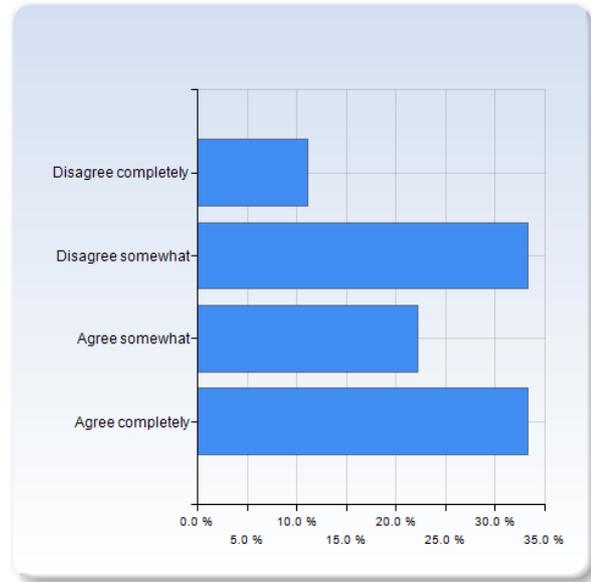
The course has increased my ability to communicate mathematics in writing	Number of Responses
Disagree completely	1 (11.1%)
Disagree somewhat	2 (22.2%)
Agree somewhat	3 (33.3%)
Agree completely	3 (33.3%)
Total	9 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to communicate mathematics in writing	2.9	1.1

### The course has increased my ability to communicate mathematics orally

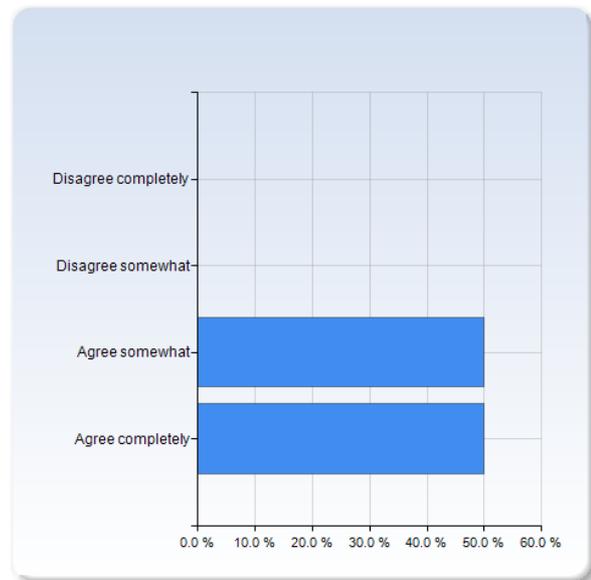
The course has increased my ability to communicate mathematics orally	Number of Responses
Disagree completely	1 (11.1%)
Disagree somewhat	3 (33.3%)
Agree somewhat	2 (22.2%)
Agree completely	3 (33.3%)
Total	9 (100.0%)



	Mean	Standard Deviation
The course has increased my ability to communicate mathematics orally	2.8	1.1

### Question specific to the course

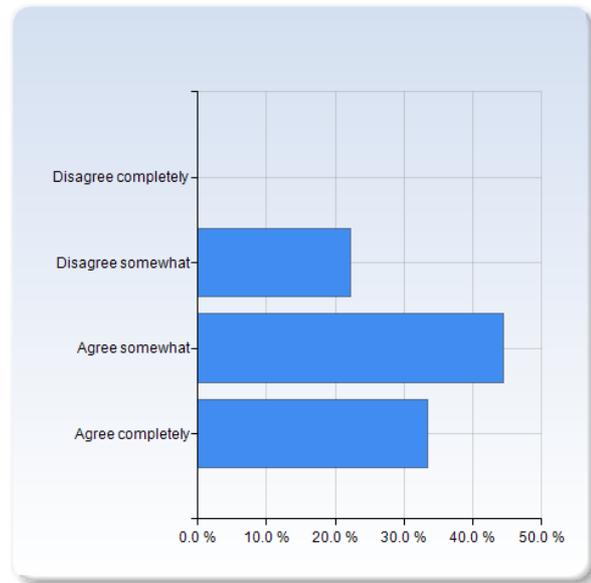
	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	0 (0.0%)
Agree somewhat	1 (50.0%)
Agree completely	1 (50.0%)
Total	2 (100.0%)



	Mean	Standard Deviation
	3.5	0.7

## In conclusion

Overall I was satisfied with the quality of the course	Number of Responses
Disagree completely	0 (0.0%)
Disagree somewhat	2 (22.2%)
Agree somewhat	4 (44.4%)
Agree completely	3 (33.3%)
Total	9 (100.0%)



	Mean	Standard Deviation
Overall I was satisfied with the quality of the course	3.1	0.8

Write a sentence or two about what you think was really good about the course, and what you think ought to be improved

Project could have been made in another way to tackle the subject more at hand! The exam was really tough, I understand that it had to be, since it was a exam at home, but still it didn't really match what was done in the course.

Overall Elsa, you're the boss!

Good: large amount info in terms of lecture notes.

To be improved: communication between teacher and students. Perhaps the teacher could ask about how it goes with seminar and programming part besides the lecture part if that is part of the teacher's responsibility, so that I would not feel the course falls apart. I also expect to learn a bit more on understanding the mathematical concept/meaning besides the definition etc.

In the beginning the course was a bit scattered, and it was hard to know how to make the studies work, but then I got a lot better. The material from the lectures was really good, very helpful, and so was the seminars. The course book was not that great, sort of hard to read and had a lot of examples that felt a bit misplaced. Maybe if there was suggestions of extra course literature to read (by choice), that would be helpful, so that one can consult other literature when the course book choses to be weird.

I really liked Elsas lectures, she was a very good teacher, very structured and always made sure to explain something that you didnt understand. The same with our seminar teacher Daniele, he was very good as well. I also liked having a weekly schedule.

What I liked less about the course was that i felt that some of the exercises from the book didnt correspond to the lectures and it was difficult to know what we should focus on learning. The exercises from the exercise sheets were different from the ones in the book and also a lot harder, I wasnt able to solve them because they just didnt correspond to what we had learned in the lectures.

Finally, the exam was very hard. Even though it was a home exam and we had more time i dont think it was on the same level that we have been taught during the course.

I think it was confusing in the beginning. What we had assigned, what happened at the lectures and seminars were all different.

That said, Elsa and Daniele were great.

Always really nice about answering questions.

The course is not meant to be entirely rigorous, this I understand, but I felt as though having some introduction of what is the meaning of what we do to solve problems would be very beneficial. As it was, the course was difficult to follow because I felt like I had minimal justification for what I was doing, neither mathematical nor intuitive.

Pace could have been faster in the beginning. Otherwise I really liked the course and I appreciated having a female lecturer. Generally, the lecturer and the seminar teachers were approachable, helpful and competent.



Centre for Mathematical Sciences  
Mathematics, Faculty of Science

## Course analysis for MATB21/ÄMAD02 Analysis in Several variables, Spring 2020

**Lecturer:** Elsa Ghandour.

**Teaching assistants:** Daniele Gerosa, Bartosz Malman.

**Number of students:** 97 registered students, including 34 re-registered students from previous course realisations.

**Examination results:**

36 of the 63 new students completed all the assignments included in the project work, 1.5 credits.

75 students participated in the ordinary written examination (6 credits) and 46 of them passed.

39 students participated in the resit examination and 9 passed.

In total, 42 students are completely done with the course.

### Course evaluation

**Summary of students answers:** The students seem to be satisfied in general with the course and they appreciate the teacher staff. Some of them complained about the level of the exam, that it was harder than the exercises done in the seminars and also about the schedule that was not clear at the beginning.

**Teacher's comments:** It was my first time that I give a course at Lund University, so I followed the notes and the schedule from the previous semester, done by Yacin Ameer. The notes were very clear and rewarding. However, when I start to follow the same schedule, since I usually explain the information slowly, there was a delay with the schedule posted on Canvas and the real time of lectures and seminars. This made the students complain about especially that they could not prepare the exercises before the seminars. To solve this problem, I changed the original schedule to a weekly schedule that I post every week with which sections we will be working on during every lecture as well as which exercises to solve during the seminars. Concerning the written examination, unfortunately we had to change at the last week the exam to a take home exam because of the situation of the coronavirus. So I made an exam which is suitable to a take home exam of duration 10 hours (which is normally given for 5 hours), so it was of course a little bit harder since they can have help from books and internet. Although the exam was relatively difficult, as the students claim, the success rate was high with many grades of passing with distinction.

**Suggestions for the next course realisation:** The only thing that I suggest to improve is the book suggested for the student to support the course. This is also the opinion of the students. Otherwise, I don't see any need for other points of change. In general, the students have very nice material for this course, they also had extra seminar sessions every week which help them a lot.

**Course leader, date**

Elsa Ghandour, 2 June 2020.