

HT16 Course Evaluation SG2804 Biomechanics of Human Movement

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How valuable was the course content to you?

Worthless 0

Of small value 0

Valuable 12

Very valuable 11

Comments "I believe this subject is fun and was very inspired during the course" (Very valuable),
"Interesting!" (Valuable),

How interesting was the course content to you?

Worthless 0

Of small value 0

Valuable 1

Very valuable 22

Comments

I have learned a lot...

Do not agree 0

Disagree somewhat 0

Agree somewhat 9

Agree completely 14

Comments "New system OpenSIM and muscle activity" (Agree completely), "I could have been more opportunities for help with the homeworks (maybe instead of the labs)" (Agree somewhat)

There were enough lectures of a good scope for me to learn the material...

Do not agree 0

Disagree somewhat 0

Agree somewhat 8

Agree completely 15

Comments "More about different muscle compensation & basics in matlab" (Agree somewhat), "More lectures to learn to the homeworks, maybe something in Matlab" (Agree somewhat)

Did the lecturer present the material in an interesting way?

Not at all 0

Somewhat 0

Rather interesting 3

Very interesting 20

Comments "Happy, energy-filled, wanted to help" (Very interesting), "Could have had more 'case lectures' with discussions" (Very interesting), "Showed it was fun with biomechanics" (Very interesting), "Fun lectures with happy Lanie" (Very interesting), "Great presentation energy, really attractive to learn stuff like that" (Very interesting)

How do you generally rate the guest lecturers' contributions to the course?

	Stefan Gantelius: Anders Eriksson: Optimization	Toni Arndt: Orthopedic Surgery	Sports biomechanics
Poor	0	0	0
Not great	9	0	1
Good	9	6	8
Very good	4	15	8
Comments	"First guest not enthusiastic enough" (Not great)		

What is your opinion of the course's exam/grading design (i.e. group projects instead of final exam)?

Poor	0
Not great	4
Good	11
Very good	8
Comments	"You have a better opportunity to actually learn and remember what each assignment teaches us" (Very good), "Some projects require a lot of time just for some errors in the code whereas it could be interesting to spend more time on analysis and why not personal research" (Good), "Some projects required too much coding and some barely any, but the analysis part was really interesting" (Good), "Sometimes a <u>lot</u> of work and poor grades and sometimes less work and good grades" (Not great), "Feel that there were too many homework projects. Also for HW1 and HW2, too much time spend debugging code rather than graphing analysis" (Good), "Fun to do the projects but maybe not as the only grading since it is a group project and cooperation can be hard" (Not great), "It was very interesting homeworks but they did take a log of time and especially since it was different group members. It would have been better with same groups throuout the course. But I learned a lot" (Not great), "Would mind an exam but this was also good" (Good), "Would prefer exam" (Good), "Kind of same loadwork all the time" (Very good), "It took much time during the weeks. The other courses with final exams got neglected" (Not great)

What is your general opinion of the homework projects?

Poor	0
Not great	3
Good	18
Very good	2

What is your general opinion of the final project?

Poor	0
Not great	1
Good	15
Very good	7

Comments	"Took more time than expected due to lack on [previous] knowledge" (Good, Good), "Could have reviewed directions about them earlier and more clearly" (Good, Good), "Present the final project before Christmas or send in a report" (Not great, Good), "Took too much time (Not great). Interesting, took much time but we also had more time available and it was a bigger project" (Good), "Time consuming" (Good, Good), "Too many problems with OpenSIM" (Good, Not great)
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What was good with the course?

"The passion of the lecturer", "Really interesting! The two main teachers were really nice and helpful", "The content, the design on homeworks", "Very good lectures", "Interesting to have a deeper look at the muscle work during body movement", "Dynamic teacher, 'sports' exercises during course, the fact that we are put randomly into HW groups and that the groups change", "All the homeworks were really interesting and gave a lot of insight", "That emphasis wasn't to cramp everything before exam and forget them after. Good.", "Interesting, the book was good", "Very interesting subject. It would be fun with more biomechanics course", "Interesting scope and good teacher", "Very interesting subject!", "Project groups", "Continuous projects that kept us studying the whole period", "The presentation, way of working, very broad but still in depth. Good to have labs!", "Interesting subject that was new to me", "Good atmosphere, very interactive", "Nice lectures, new subject for me", "It was interesting, engaged teachers", "Interesting lectures and applied project"

What about the course do you think should be changed?

"Not that much programming, more look at changes in muscles, etc.", "The course deserves more credits for the amount of work", "Possibly to choose group partners & more help for code", "The review questions were not all very interesting", "Less projects? Or less focus on projects", "Too much Matlab", "Too many homeworks. Did not know requirements for a specific grade. Skip Matlab, more work in OpenSIM", "It was very much Matlab, and I believe there should be information that Matlab is needed. Too big group/class", "Maybe one or two individual projects", "More guest lectures", "More technical information for homeworks e.g. how graphs should look like, labels, etc.", "Didn't mind handing in the lab reports, they make students make the labs and it will be needed in the final project", "One less homework", "The homeworks with OpenSIM should start sooner", "Lectures in the same room", "Less homework and maybe a smaller exam instead (to fit more with KTH's other courses)",

If you could give some advice to next year's students, what would it be?

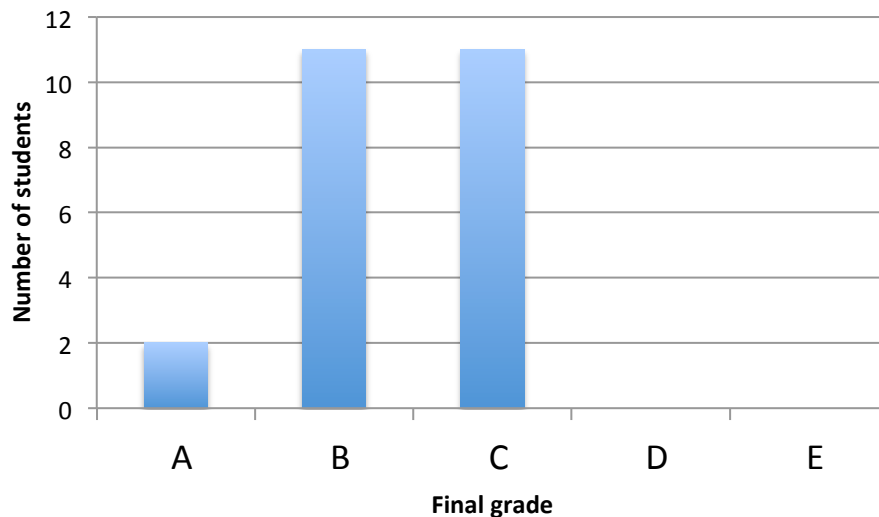
"Go to all the lectures", "Do not take other 'hard' courses at the same time. This course is fun but needs quite much time outside class", "Start with homeworks early", "Start early with the assignments, they take time", "Brush up on your Matlab :)", "The lectures were not too valuable for homeworks. Prepare with Matlab, Open sim labs were not valuable to do the tasks in OpenSIM", "Read a lot, participate in the lectures, requires very much time!", "Put in a lot of work in the beginning!", "Participate actively at the lectures", "Take your time to think about the material because it's actually logical", "Make the labs, spread your workload, go to lectures because they are very interesting!",

Other comments:

"Fun, interesting, but can change the design of the course. The homework should be more fun if we could look at more movements instead of looking for problems in the code. Maybe a code where to change some variables instead of changing the code. Maybe give the final project instruction in the beginning so you can 'start working' on it while you get knowledge from homeworks. Then you can focus on a good presentation and correct answers instead of having trouble with plots, etc.", "Write a clear code", "There should have been more time for help with the final project and the homeworks", "Only take the course if you're interesting, otherwise it will be hard to stay up in the small hours"

Course Analysis

All 24 registered students passed the course this year. The grades were largely B and C. At least half were from CMEDT or taking a dual degree in biomedical or medical engineering, followed by masters students in engineering mechanics. The mix was good.



Conclusions

This group was a good group, if a little quiet. They were very critical of the time consumption, even though I have successively made the course load lighter. I think there were quite a few who were not confident with their Matlab skills. I might make a better shell of a Matlab program for HW1 and HW2 next year, to give students more time to focus on subject comprehension. The final project subject was changed back to the earlier one (weakness and compensation), and the whole group presentation were changed into individual group presentations in my office. These seem to be positive changes. I also had too few lectures to spend them on project presentations, so there were more reports than in previous years. The reports were good, but it takes a lot of time and energy for me to read through and grade all of them. Conclusion: continue with this final project topic, make Matlab HW less time consuming