

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

All of it

② Which aspects of the module could be improved?

Nothing

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

It was challenging, which I really enjoyed, but it was taught in such a way that it was understandable and not too headache-inducing.

Really interesting topics were covered.

I especially enjoyed cryptography even if it made my head hurt.

② Which aspects of the module could be improved?

Cleaner whiteboards.

③ Other comments

N/A.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I like that it doesn't ~~come~~ ^{pull} from learning cent. ~~at~~
much.

I like that ~~the~~ what we did in the lectures was done
there rather than from slides.

② Which aspects of the module could be improved?

Better tutorials

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I enjoyed that Graham's lectures weren't done on slides on a projector screen. He went through the math step by step which I found to be a much easier way to understand. He was always organised and knew how much he had to get done by the end of a lecture.

② Which aspects of the module could be improved?

There were some simple concepts ~~where~~ ^{where Graham} ~~he~~ would ~~go~~ ^{would} go to the next line of math where maybe most people would understand but I think it would help if he quickly explored the simpler things just so no one gets lost going from one line to the next.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The professor, interactive fun style.

Education philosophy, focus on ideas, ~~rather than~~ and understanding rather than calculations.

Relation to "real-life" and instructor's passion for subject.

② Which aspects of the module could be improved?

More structured tutorials may be helpful.

More hours - the classes went too fast!

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The lecturer made the module very interesting

② Which aspects of the module could be improved?

didn't see any problems with the module

③ Other comments

none

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The lecturer engaged the class well.
- The real world examples helped with the understanding
- The homeworks helped me to keep up with the work

② Which aspects of the module could be improved?

- Show more exam questions for each topic
- Better tutorials

③ Other comments

Wish we had Graham for semester 2.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Found the lectures engaging and interesting.

Graham explains things well and makes maths enjoyable.

The areas we covered were different to leaving cert maths and I found them more applicable to everyday life problems.

② Which aspects of the module could be improved?

More emphasis on help with homework sheets, and better, more thorough tutorials to help with the homework sheets and preparation for Christmas test.

③ Other comments

Can we have you next year?

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I found Graham's classes interesting and engaging.
The worksheets and tutorials helped me learn the coursework. ~~was~~ The real life aspects (examples) in class helped me see how maths can be used in the outside world.

② Which aspects of the module could be improved?

Move seats at the beginning of term. Slower movement in cryptography.

③ Other comments

I LOVE GRAHAM

ps. teach second year.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The lecturer is pleasant ☺

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② Which aspects of the module could be improved?

- More feedback on work

- Homework problems should be worked out & solved - if not correct

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The organisation of it - notes available online, structure of lectures
- Linking of course to examples - eg. Google

② Which aspects of the module could be improved?

- Slow down in certain parts; maybe take poll/hands to see if everybody understands.
- Extra problems and solutions online

③ Other comments

Tutorials could be friendlier ~ less judgemental.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Obscure maths that gets you thinking, it forces you to think rather than just mindlessly filling in formulas

② Which aspects of the module could be improved?

Should stick to one aspect of maths at a time, rather than jumping between calculus/algebra from day to day

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Enthusiastic Lectures
Interesting/challenging course content

② Which aspects of the module could be improved?

Lecture notes are very difficult to study from, no explanation, just numbers.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The instructor Graham Ellis was very good at bringing maths into real life situations and keeping it interesting. One of my favourite modules

② Which aspects of the module could be improved?

- Homeworks
- Extra notes maybe

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Good at explaining topics,
Gives us good helpful notes

② Which aspects of the module could be improved?

- Do more examples
- We go through some topics very fast
-

③ Other comments

- Great Teacher
- Sound man,
- Always has good stories to tell

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The examples done were complex and gave us a better understanding of calculus and algebra in everyday.

No time wasted on repetitive examples.

② Which aspects of the module could be improved?

More questions to practice on

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked the Calculus Section the most.

I also liked the fact that it wasn't just all exam information, that you were teaching us how to be mathematicians.

② Which aspects of the module could be improved?

Found it hard to ^{differentiate between} know what was very important for the exams and what was extra information that was just for the purpose of further explaining something.

③ Other comments

Maybe show the very important stuff with a symbol or colour etc.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

~~(The)~~ Lectures were well prepared and clear.

Lecturer was helpful and approachable.

Quite liked matrices, eigenvalues and eigenvectors.

The notes being on blackboard is very helpful for revision.

② Which aspects of the module could be improved?

I think there should be more class interaction such as example questions in which we're given time to try a question ourselves then give our feedback to see ourselves how we are progressing and how much we understand the topic and the problem at hand.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Interesting lectures and use of real life problems
- Great lecturer
- Good variation of questions in the problem sheets.
- Good explanation of example questions

② Which aspects of the module could be improved?

- More in-class tests
- Would be nice to have more assignments which focuses on the workings rather than answers

③ Other comments

- Great course for anyone interested in Maths

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Lecturer is helpful + provides a clear understanding of what is being taught
- The content + real world applications was interesting.
- Continuous Assignments

② Which aspects of the module could be improved?

- An actual list of topics that need to be studied for the exams - it is hard to understand what actual things we need to know

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Real-life ^{calculus/} algebraic applications.
- Broad range of topics.
- Use of blackboard to see all lecture notes
- Fun and engaging lectures

② Which aspects of the module could be improved?

- Correlation between lecture notes and some homework questions
- Larger lecture halls!
- Calculus sometimes feels off-topic and hard to understand the application or point in learning some parts.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The use of real-life applications with the topics that we learned about made it very interesting and it also made it more fun to learn the material.

The notes were also easy to follow and easy take down

② Which aspects of the module could be improved?

More examples could be done for different questions as sometimes I would struggle on the problem sheet questions even if I ~~had~~ looked at the notes.

③ Other comments

The lecturer is very good and explains things well.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The interesting lectures with insights into the practical applications of the different bits of theory we learned,
- ~~The~~ The way the lecturer eases in the mathematical notation so it becomes more intuitive to understand.

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The problem sheets are good.
Definitely need a little bit more time to complete because they can be quite long, and not fully covered in tutorials.

② Which aspects of the module could be improved?

- Don't cover things not on exam
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③ Other comments

- Only module I actually enjoyed going to

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Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Relating the notes to the real world.

Doing the notes in front of us as we do them.

Putting the notes on the webpage after each lecture

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The humour

Some of the content revised was very interesting

Worksheets encourage understanding of material

Interesting examples used to explain topics

② Which aspects of the module could be improved?

Slower pace if possible

Less abstract explanations

More use of blackboard if possible

~~Don't cover topics~~

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked when the maths was applied to real life situations to give us an idea of when it could actually be useful.

② Which aspects of the module could be improved?

20 minutes of pure maths under a single equation can be tough to concentrate and follow.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I really enjoyed this module, I felt that the instructor made it very enjoyable and interesting at the same time. ● ●

② Which aspects of the module could be improved?

They could give him a bigger ~~lecter~~ lecturer hall at the start of the year.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- How the maths problems are applied to real life situations
- Instead of lots of short examples we go through 3-4 long extensive problems

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Graham Ellis makes ~~it~~ complicated maths simple and straightforward
- Tutorials help alot with problem sheets

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked seeing how the mathematical concepts could be applied to real world problems.

For example cryptography and differential equations.

② Which aspects of the module could be improved?

Nothing

③ Other comments

I liked how Graham engaged with us during lectures and got us involved.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Graham is friendly and funny.
Notes are good.

② Which aspects of the module could be improved?

Some letters look very similar (m and n for example) and it can be confusing. Try to differentiate the letters more.

③ Other comments

~~Provide~~ A more step by step system to solving problems.

As in a step 1, do this
step 2, do that

approach, so its easier to read over when studying.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Continuous assessment.

② Which aspects of the module could be improved?

more examples.

③ Other comments

good notes.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Notes are put up online
- Notes are written clearly

② Which aspects of the module could be improved?

- Going through problems step by step in tutorials.
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③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Notes are well organised and available online

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② Which aspects of the module could be improved?

- More focus on practice questions

- ~~the~~ Smaller Tutorials

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- I liked the use of clock arithmetic as it was new and I had not used before

② Which aspects of the module could be improved?

• No solutions for past exam papers to base answers of.

③ Other comments

• Could use some practise sheets on questions for more experience on problems.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

very interesting doing new stuff in math

lectures were interesting

② Which aspects of the module could be improved?

- It was very challenging, the lectures could be slowed down

- Important formulas for homework/tests should be emphasized so students can learn those instead of wasting time learning theorems

③ Other comments

less theorems

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Notes from lectures easily ~~accessible~~ ~~accessible~~ ~~accessible~~
accessible

② Which aspects of the module could be improved?

~~Pro~~

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked the enthusiasm of the lecture and the overall vibes of the class.

② Which aspects of the module could be improved?

Does not take attendance so my presence is of no value other than learning.

③ Other comments

keep up the good work.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The enthusiasm of Graham as a lecturer and his level of interaction with the class.

② Which aspects of the module could be improved?

Go through examples more slowly.

Don't give more examples in some cases.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Presented in an interesting, engaging way.
Interactive ~~me~~ - students are involved/contribute to lectures
Extra Continuous assessment system.

② Which aspects of the module could be improved?

Online notes are hard to follow if a lecture is missed.

③ Other comments

Buy a reusable coffee cup!

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The lecturer teaches the material in a very interesting way and he makes sure his students understand why/ how we do the maths instead of just doing the calculations.

② Which aspects of the module could be improved?

The homework is quite hard, it would be nice if there was a way of finding out if your answer is correct after doing it, just to know if you are doing it correctly.

③ Other comments

It is a very interesting class.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Graham Ellis - great lectures, always interesting

② Which aspects of the module could be improved?

③ Other comments

Graham Ellis is a great teacher

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The interaction between the lecturer and the students.

② Which aspects of the module could be improved?

More information on topics in lectures should be online. (other than lecture notes)

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Lectures were enjoyable.

② Which aspects of the module could be improved?

More transparency between lectures and problem sheets.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I enjoyed learning new aspects of maths and seeing the practical uses of maths, especially in algebra

② Which aspects of the module could be improved?

Examples ~~of~~ for cryptography

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Lecturer good at explaining
- Lecturer helpful

② Which aspects of the module could be improved?

- The content seems irrelevant sometimes
- some topics very heavy

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Lecturer good at explaining things
- Good interactions
- Exams are predictable which makes it easier to prepare for

② Which aspects of the module could be improved?

- More seats in the starting weeks. Lack of seats likely discouraged people from staying
- Tutorials clash with labs on most days

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Calculus

② Which aspects of the module could be improved?

Number Theory / Algebra

③ Other comments

Have More Applications in Number theory

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I found the module quite enjoyable
Graham is very lovely, what a dote!!

Some of the topics were a wee bit confusing
but ~~it~~ with a wee bit of work it
was grand.

② Which aspects of the module could be improved?

The tutorials weren't great in my
opinion, not a fan of Kirsten phiefer.

③ Other comments

what a wee legend!

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?
(and modular arithmetic)

I loved the cryptography as it wasn't like anything I had ever done in school before and because of this found MA180 much more interesting than my other modules as they were just repeating the leaving cert. I also loved the challenge of the course as I think it was my only module that was in any way difficult which added to my interest in it even though I've already done maths.

② Which aspects of the module could be improved?

For the ~~first~~ challenge question in the first online homework I guessed zero and got the answer right but I was never sure why. It would be interesting if after the results came out we could see how the answer was supposed to be found.

③ Other comments

I enjoyed this module more than any other and Graham is a fantastic lecturer.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Cryptography
matrices

② Which aspects of the module could be improved?
Differentiation & the calculus side of the module

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Proofs and Matrices

② Which aspects of the module could be improved?

Calculus, parts of it are too abstract but most of it is sound
I like calculus but some of it flew way over my head

③ Other comments

Injectivity and Inverse functions could be expanded upon,
although the tutorials addressed all the issues

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Engaging lectures
- Interesting topics

② Which aspects of the module could be improved?

- Some more examples of the things we do could be helpful.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Algebra

- Lecturer

- ~~was~~ everything well taught

- Good notes

- Notes easy to find online

② Which aspects of the module could be improved?

~~to be~~ more revision of harder content

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked how the course did not focus primarily on the final exam at the end. It covered many interesting mathematical topics and techniques.

② Which aspects of the module could be improved?

A variety of different examples for each theorem we needed so that the ~~we~~ ~~do~~ topics we explored in depth.

③ Other comments

Big man Graham is a legend.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The method of homework assignments was efficient and handy.
- The algebra and calculus split during the week was a good way to keep things from getting boring.

② Which aspects of the module could be improved?

A more comprehensive conclusion to chapters.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Interesting.

② Which aspects of the module could be improved?

More revision of topics

More time spent on topics before moving on.

③ Other comments

I have no idea what I'm doing, help.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

interesting

② Which aspects of the module could be improved?

more revision of topics

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- continuous assessment
- Applications to real life
 - ↳ cryptography, ISBN etc

② Which aspects of the module could be improved?

- More notes
- solutions to homework questions
- more examples of exam type questions

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Challenging, taught at reasonable pace, good lectures

② Which aspects of the module could be improved?

Extra materials and revision classes, extra questions on top of homework

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

~~The~~

The lecturer would write down the notes during the lecture and explain it as he was going through them.

This allowed us to take down our own notes and try to understand it.

I liked that powerpoints were not used.

② Which aspects of the module could be improved?

- * More explanation of the concepts - some aspects of the course are difficult to understand
- * Going through more exercises that apply the proofs & theorems being learned.
- * Structured revision materials that go through the material covered in each lecture.
- * A lot of the material is very general with regards to maths and usually it's unclear which problems/equations/situations it can be used for.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked the way the lectures were kind of informal and conversational

② Which aspects of the module could be improved?

None, it was a fast paced module but that can't be helped and it was my favourite

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

• Matrices

② Which aspects of the module could be improved?

Solutions to Problem Sheets.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Variety of topics

② Which aspects of the module could be improved?

Do some Problem sheet like questions in class.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Cryptography

Calculus → rates of change → personal favourite of calculus

↳ ~~mostly~~ all of calculus.

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Detailed notes

~~Problems~~ & Problem sheets online were helpful in improving

Everything available online

Helpful and energetic lecturer

② Which aspects of the module could be improved?

No attendance taken

Explanations on relevance and use of notes

Lectures can run over on time

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The aspects which were applicable to real life e.g. learning how ~~RAN~~ IBAN works and how it incorporates modular, or how encryption and decryption works.

② Which aspects of the module could be improved?

Everything can be improved, nothing is perfect. I think a general way you could improve the module is by doing ~~more~~ examples with actual number values,

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Matrices was nice

② Which aspects of the module could be improved?

More time on cryptography. As it was at the start of the year it felt a bit rushed like we hadn't settled in yet.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The content of the lectures.
- The summary of each lecture online
- The multiply choice questions homework questions.

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

content

the lecture summaries online

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked it all, favourite class!

② Which aspects of the module could be improved?

Make solutions for exam papers available so can be sure in doing correct methods when studying.

Just need the answers not workings.

③ Other comments

Stay being you!

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Graham's love of the subject comes through in his lectures.

② Which aspects of the module could be improved?

Solutions for exam papers could be made available.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I enjoyed this module specifically because of the lecturers refreshing, humorous approach to teaching the module content.

I found that the way the module was structured was very effective with calculus on a Monday and Tuesday and Algebra Wednesday and Thurs.

② Which aspects of the module could be improved?

-

③ Other comments

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Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I loved matrices, found it quite systematic and enjoyed these @ on the homeworks.

~~I really enjoyed~~

having homeworks as part of my end of year grade, it helped alleviate the stress of one big exam

GRAHAM ELLIS IS THE GOAT!!

② Which aspects of the module could be improved?

I found limits in calculus extremely vague and never fully explained to make sense.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Classes were interesting.

Graham was good.

(day-cent)
↑
Moved at a decent pace.

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

→ Algebra 😊

→ analysis of Google (i.e. matrices)

② Which aspects of the module could be improved?

Explanations of calculus. could possibly be improved.

Spend more time working on the basics of calculus (it is sometimes badly taught in secondary school :c)

③ Other comments

Never use clickers - stay true to you.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

It's very interesting.
Cryptography especially

② Which aspects of the module could be improved?

More fully done out examples.

And a little bit more time on the exam type questions.

③ Other comments

The lectures makes it interesting.
Not boring which is great 😊.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Algebra, cryptography

② Which aspects of the module could be improved?

more exam prep
more examples per topic

③ Other comments

get a reuseable coffee cup.
keep shittalking engineers.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I enjoyed relating to algebra, it seemed more relevant & interesting.

Lesson was amusing & well organised.

② Which aspects of the module could be improved?

Clear organisation, more time spent on enciphering.

③ Other comments

n/a.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked all aspects of the module especially clock arithmetic and the Euclidean algorithm.

② Which aspects of the module could be improved?

- Practice sheets for the homework.
- For the homework, ^{complete} solutions for answers.
- Solutions for the exam papers

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Calculus
- Affine cryptography
- Modular Arithmetic
- The online worksheets

② Which aspects of the module could be improved?

- matrix cryptography
-

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?
Calculus, Algebra, +

② Which aspects of the module could be improved?
~~Cryptography~~
Matrix cryptography,

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Algebra
Simultaneous by a matrix.

② Which aspects of the module could be improved?

Differentiation
Better examples

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The ways in which the maths we're studying is linked in with existing algorithms eg Google's search engine, world populations etc

② Which aspects of the module could be improved?

Slightly more explanation when doing proofs/long calculations. Sometimes it feels like concepts are just being pulled out of thin air

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The code breaking questions
and using the matrix's

② Which aspects of the module could be improved?

add more clicker questions

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Graham would discuss and communicate mathematical ideas well and clearly.
- The notes done in class are easily to understand, and well laid out.

② Which aspects of the module could be improved?

- The homework system could do with some improvement, perhaps more feedback or limited attempts on a question.
- More homework and questions that don't count towards CA for personal practice.

③ Other comments

- Graham makes the world of maths easier to interpret through his real life examples and funny life stories.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Notes put online were helpful

② Which aspects of the module could be improved?

more examples of questions. (varied examples)

Tutorials weren't that helpful.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I liked that we learn new concepts that were never taught in secondary school.

Graham is good at teaching and makes the lectures enjoyable.

② Which aspects of the module could be improved?

If similar examples of the homework questions could be done in class as I found I didn't know how to do some of the homework even though I followed it in class.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Putting the notes on the internet

② Which aspects of the module could be improved?

Don't be teaching stuff that's not on the exam.
More time to do problem sheet

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

course content
lecturer enthusiasm
good accent
separation between calc. & algebra.

② Which aspects of the module could be improved?

more structured tutorials
goes v.v. quickly
needs bigger lecture halls on Mondays
(not IT 250!)

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Lots of questions to work off and practice
- Well explained content in class, easy to follow

② Which aspects of the module could be improved?

- Get a tablet or something like that to write on, plastic sheets are bad for the planet :c

③ Other comments

Graham was great, I'll miss him :)

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I found the lecturer to be very engaging and the material quite interesting

② Which aspects of the module could be improved?

~~Tutor~~ ^{on} ~~tutorial~~

Tutors in tutorials could have worked with us more as a group instead of working with people individually, as there sometimes isn't enough time for everyone

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- lectures were interesting & well delivered with good content
- applications of the maths

② Which aspects of the module could be improved?

- sample questions with answers/ worked solutions, so we can check our work

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Really interesting applications for the things we learn
challenging problem sheets
Really engaging lectures

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

→ Graham!

→ Course content + how the week was split into algebra & calculus.

② Which aspects of the module could be improved?

^{more} → structured tutorials

→ solutions to homework problems online

~~and~~

→ Need bigger lecture halls.

③ Other comments

GIVE GRAHAM A REAL BLACKBOARD!

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Encryption.
Graham.

② Which aspects of the module could be improved?

give solutions to homework questions rather than just answers.

More use of turning point.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Algebra

② Which aspects of the module could be improved?

The speed at which the lectures move ext. The topics seem to be covered very slowly which can cause the students to disengage with the lecture.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Integration
(calculus)

② Which aspects of the module could be improved?

~~affirm yet~~
Answers for online homework
questions

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Matrices

- Good Lectures.

② Which aspects of the module could be improved?

- Homework grading should be improved.

- ↳ Give a few attempts at getting the questions correct.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?
lectures were good and tutorials were helpful

② Which aspects of the module could be improved?
Example questions could be more similar to questions in the worksheets.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Graham's Notes were easy to follow
and he was engaging during lectures

② Which aspects of the module could be improved?

Slower movement in harder topics

③ Other comments

I LOVE GRAHAM

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Lecturer

Homework Assignments

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Given plenty of time to complete homework (attempt)
- Lectures were interesting & showed some real life applications of what we were learning.

② Which aspects of the module could be improved?

Solutions to online homework would be very useful for studying how to tackle the more difficult problems

③ Other comments

Lecturer was very engaging.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Enjoyed professors method of teaching,

Enjoyable lecture.

well explained through his methods.

② Which aspects of the module could be improved?

MORE reference to the problem sheet.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Matrices & Chinese remainder theory.

clock arithmetic

② Which aspects of the module could be improved?

Cryptography is really hard and needs to be explained better. I went to tutorials & sums for help and it just made me more confused or the people in sums didn't know how to do it either.

③ Other comments

~~Maybe~~ Probably should teach at a slower pace.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Rates of change / Matrices

And the real life uses of these

~~Rate~~

② Which aspects of the module could be improved?

RSA cryptosystem

③ Other comments

Interesting lectures

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The context and applications given for the topics taught.

② Which aspects of the module could be improved?

Solutions and more feedback for problem sheets

③ Other comments

Enjoyable and interesting and challenging

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?
calculus. was pretty straightforward & interesting

② Which aspects of the module could be improved?
matrices can be quite confusing at times
& cryptography
↳ (maybe do some more sample qns in lectures)

③ Other comments
overall, very enjoyable lectures.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- problems are being explained very good
 - I understand everything in the lecture
- enough examples

② Which aspects of the module could be improved?

- my favourite module so far → nothing to improve
~~to improve~~

③ Other comments

- go over some of the problems on the homework sheets
 - ↳ I never know what I did wrong and if my way of solving the problem is the most efficient

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I like the professor and I like how what we were doing was new and interesting. ~~Also~~ I also enjoyed how the class really made me think, it's hard but interesting.

② Which aspects of the module could be improved?

I feel like I don't know why we do some of the topics / it's assumed we've already done them when we haven't. More explanation with examples would be helpful, more exam like questions in lectures would help for homework and the exam.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Tutorials to help with
problem sheets.

Worked example problems
in lectures.

② Which aspects of the module could be improved?

Less theorems, proofs would be preferred

~~More~~ Give solution sheets in
tutorial to 'guest' sheets

Give solutions to problem sheet
to enable students to learn
from their mistakes.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?
worked out problems in class

② Which aspects of the module could be improved?
give solutions to guest assignment problem sheet
→ solutions to questions

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Had plenty of time for continuous assessment sheets.

the professor is really good.

that the notes go up online.

② Which aspects of the module could be improved?

Have the solutions to the answer sheets put up after its closed.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

modulus / algebra topics

② Which aspects of the module could be improved?

calculus topics

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- I enjoyed the algebra aspect of the module. I thought it was quite interesting and relevant.

- The lecturer was very energetic and enthusiastic.

- The application to the real world problems was very good and kept material thought relevant.

② Which aspects of the module could be improved?

- I found some of the calculus quite challenging.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The lecture was entertaining and useful
- All algebra chapters
- ~~Applications~~

② Which aspects of the module could be improved?

- None

③ Other comments

- I found Algebra much more interesting than calculus

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Graham is an excellent lecturer. Lectures are well-paced, concepts are explained ^{very} well. ~~and~~ Homework sheet system is good and easy to understand. ~~Exp~~ Proving theorems we use is very good for understanding.

② Which aspects of the module could be improved?

~~if someone takes 5 tries to pass numerical test they should be kicked out.~~

Example 1

Some more thought-provoking problems like Diophantine Equation on sheet 1.

③ Other comments

Graham is superb lecturer.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Lectures were always interesting and the realworld applications helped to keep me interested.

② Which aspects of the module could be improved?

Tutorials. We worked away on the HW problems whereas I think it would've been better if he did some sample HW problems (with different numbers) on the ~~board~~ board.

③ Other comments

Really enjoyed the module and was a great introduction to ~~college~~ college maths.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

Topics

Homework

② Which aspects of the module could be improved?

Make

Give a goal for the lecture rather than spontaneously coming to a conclusion

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I really like the lecturer, he is very good at making the class enjoyable.

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I like the professor's effort to fully explain the theory behind his explanations, also his enthusiasm makes the class more bearable.

② Which aspects of the module could be improved?

It doesn't feel like maths. For the past 11 years we were given a question and had to put in effort into finding an answer and to fully understand the mechanism, here we're just expected to learn off theory and there's no fun in that.

③ Other comments

- More emphasis on abstract questions for homework; right now it's pure theory and one that's often difficult to follow and has big jumps throughout its steps. Students should be given a few questions that they should work hard on and solutions should be sent after due date.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- I liked the way the module was taught.
- The way in which the module was taught
- That we were taught necessary information.
- Graham Ellis. ✓ Best lecturer yet.

② Which aspects of the module could be improved?

- Maybe there could be more links to papers online for certain elements of maths.
- Introduction of Exercise questions that aren't marked, but used for practice.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- ~~Matrixes~~
- Most of algebra
- trigonometry
- logarithms
- The lectures were very laid back and the lecturer is very funny

② Which aspects of the module could be improved?

- Some of the explanations were over complicated but very precise.
- better tutorials

③ Other comments

/

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- The lectures are laid-backed
- Topics are interesting
- I liked the rigorous study of calculus

② Which aspects of the module could be improved?

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- * Using "real-world" examples for context.
- * "Workshop" environment made content more engaging.

② Which aspects of the module could be improved?

- * It is easy to lose track of what is happening and have no way to recover.

③ Other comments

Overall an interesting and engaging module with relatively manageable content, but it's not for the easily distracted.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- clock Arithmetic
- deciphering functions/key.

② Which aspects of the module could be improved?

The HW website.

③ Other comments

- good pacing

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The aspect of MA180 I enjoy the most compared to other courses is the fact that on most days we learn something new that we never learnt in high school. I really enjoy this, as it gives the students a chance to think about something new and interesting, while not feeling like a repeat of high school. The website is very handy when wanting to see past notes, tutorials and access homework.

② Which aspects of the module could be improved?

I believe that there should be more student interaction. I think TurningPoint/Clicker would slow down the class, as the lecturer would have to wait for all 200 students to answer a question.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The way of teaching and the assignments.

② Which aspects of the module could be improved?

Be faster when doing simple maths.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I thought the cryptography was particularly interesting as it had a very definite end goal. Towards the later part of the term the questions all became more specified which made them more engaging.

② Which aspects of the module could be improved?

- I feel there would be of good benefit if there was some ~~type~~ kind of extra class on demotives. (maybe just one or two the first week of the course) as people who had poor backgrounds coming in were brought up to speed.

③ Other comments

Nil

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

I like the range of topics covered and how they tie together over the semester.

② Which aspects of the module could be improved?

Perhaps it might be good to try solving more complicated problems in class to show student how to tackling harder situations.

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

The way of teaching

② Which aspects of the module could be improved?

I don't know

③ Other comments

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

It was well delivered & used real life examples so it was easier to understand.

② Which aspects of the module could be improved?

In class surveys on the previous lectures as it would help you remember what you learned

③ Other comments

It was not always clear when the homeworks were available online as there weren't online announcements.

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- Calculus

② Which aspects of the module could be improved?

- Class interaction
- Comedy

③ Other comments

Lectures are slow

Evaluation of module MA180/185/190

Instructor: Graham Ellis

Year: 2019-20

① Which aspects of the module did you like?

- lecturer very nice
- good use of classroom technology
- prioritises class participation

② Which aspects of the module could be improved?

- Go slower changing notes (I don't get them all down)
- Tough homework - could be easier (Explained more).

③ Other comments

:)