

## Individual Report for ELEC\_ENG\_223-0\_20: Fund of Solid State Engineering (Manijeh Razeghi)

Project Title: Course and Teacher Evaluations CTEC Fall 2021

Courses Audience: 10  
Responses Received: 9  
Response Ratio: 90.0%

### OPEN-ENDED QUESTIONS

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#### Did the course help you learn? Why or why not?

##### Comments

In short, yes. This course did an excellent job of laying the groundwork into solid state engineering and the science behind the semiconductor and its applications. By focusing on the science behind it, rather than getting bogged down with the equations and derivations, the concepts were fairly intuitive.

It's almost impossible to not learn in this class. Razeghi is extremely knowledgeable and is very passionate about the subject.

I learned a lot because the textbook was very detailed.

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#### Please summarize your reaction to this course focusing on the aspects that were most important to you.

##### Comments

This has been the best class I have taken to date and it has inspired me to pursue this field. Prof. Razeghi is an amazing professor and an incredible person. This was clear from the first day when she walked into class and addressed every student by name. That takes a considerable level of commitment and dedication to her students. She also came to class bubbling with energy which made me excited to come each day. This course did an excellent job of laying the groundwork into solid state engineering and the science behind the semiconductor and its applications. By focusing on the science behind it, rather than getting bogged down with the equations and derivations, the concepts were fairly intuitive. The class style is fantastic, with labs, homework assignments, a final project, and only one exam.

Didn't enjoy the course at first because it was extremely difficult and hard to follow. Razeghi is a great teacher, but unfortunately she has a pretty significant accent and can be hard to understand sometimes. She also doesn't answer questions very well; although if you keep asking she'll eventually understand what you're asking. Other than that she's an extremely passionate teacher who really cares about her students, probably more than any engineering professor I've ever had. The slides aren't posted so you have to go to class, but that's probably a good thing because if you tried to learn this class from just the slides you would get under a 20%.

I'm a junior, and this is easily a top three class I've taken at Northwestern. What a difference a good professor makes. If you've got a spare tech elective or basic engineering, I highly recommend using it on 223. Heck, even if you don't, I might anyway. I loved this class.

Assignments aren't particularly time consuming, but there's a ton of material that's hard to absorb all at once especially towards the middle and end of the quarter.

Professor Razeghi is such a nice and passionate professor, she truly cares about both the subject which she teaches, and her students, and wants all her students to succeed. However, the way the class is organized is a bit weird. Lectures often move at a fast pace over complex material after week 2, and the slides are not posted so it is hard to review what was covered in class. Razeghi argues that not posting the slides is to the benefits of the students since it forces them to read the textbook – However, I disagree. The textbook goes into a lot more detail than what is required to understand for the course, and given the time that it would take to go through the textbook concurrently to the class, it simply isn't worth it for the average, super-busy McCormick student.

The result of how the class was structured was the feeling that I knew nothing, since the lectures moved at a fast pace and the slides are never posted. However, it was easy to do well on the hw, since they were short, and you can easily look up the specific topic in the textbook – yet this does not help me learn the material. I had to learn pretty much everything right before the final exam, which was a bit stressful.

I really wish the slides were posted, it would have made it so much easier to learn the material.

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### What are the primary teaching strengths of the instructor?

Comments
Prof. Razeghi is one of the best professors I have ever had and is truly an inspiration. She is so dedicated to her work and her passion for it is made clear during her classes. Her energy and enthusiasm for the content in the class makes it impossible not to love the material. Additionally, she truly cares for her students and their pursuit of knowledge. I am excited to continue learning under her.
Passion, cares about students learning, extremely knowledgeable
I've never had a professor so clearly enamored with the subject material or so invested in their students. If my other teachers were even half of professor Razeghi, engineering at this school might be tolerable.
One of the most, if not the most encouraging professor I've had thus far. Genuinely seems to care for students
High energy and explained everything multiple times, making sure we understood it
Very passionate and energetic about the material.

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### What are the primary weaknesses, if any, of the instruction?

Comments
None.
Doesn't understand questions that well, hard to understand at times
Sometimes the pacing of the class felt too quick, especially around weeks 4-6 making the material harder to absorb.
Sometimes overcomplicates her response to questions when the question is asking about something simpler.

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### Can you offer suggestions for improvement?

Comments
None.
She gets so excited that sometimes she tries to answer a question before the student is done talking and ends up answering a completely different question. She should listen to the full question, process it, and then answer. Other than that, she has been my favorite engineering teacher thus far :)
Never change professor Razeghi
Sometimes we'd rush on wednesdays to cover the material for the labs, possibly go a little bit faster on the previous two days so that we can grasp the material at a relatively even pace
I would love it if the lecture slides were posted.

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### Rate the effectiveness of the instructor in stimulating your interest in the subject.

