



# JEFF

## PHYSICS

### ABOUT MY MAJOR

Physics is a blend of math and science. It is a very rewarding but difficult major to go into. It is a lot of work, but I find it to be a lot of fun since you do so much hands-on learning. I've really enjoyed my time in it. You get to model how the world works around you and we try to find different equations and different ways to view that world. There are different areas of physics that explain different areas of the world.

### CHOOSING MY MAJOR

When I was in high school, I enjoyed math and science, and so I decided my senior year that I wanted to major in something that blended those areas together. I like the idea that I can also pursue a career in engineering after graduation too.

### MINORS & CERTIFICATES

You can pair pretty much any minor with physics and it will go well in my opinion. I have a Math minor and a Data Science minor. For Physics, you have to complete math courses through Calculus 3. At this point, you're halfway done with a math minor, so it's a great minor to complete. Data science is an emerging field and a lot of people are going into that. It is a good blend of statistics, physics, and computer science.

### STUDENT CLUBS & ORGANIZATIONS

I'm the Secretary of the Physics Club. We meet every other week and host different events or complete projects. Currently we're building model rockets. This has helped me get connected at UNI!

## INTERNSHIPS

I did an internship at UNI and I worked on Nanocellulose, which is an organic compound that they're trying to send to space because it's super light and very strong. I learned a lot of skills with microscopes, and I learned how to use the AFM, the atomic force microscope and the SEM, the electron microscope as well. I got to present at the end of the summer at the Undergraduate Symposium.

## CAREERS

Electrical engineering is what I'm planning to do after graduation, switching my focus to the engineering side. I like to get my hands dirty and physically work on things. With electrical engineering, you can work on pretty much anything. What I'm looking to do is get into defense work. There are many different companies that need electrical engineers. A lot of companies require electrical engineers to make planes, which is something I am interested in.