Studying and learning Biochemistry has been one of the toughest subjects I have had to endure in my entire education. However, the love that I have for learning about the different biological pathways and understanding of how living organisms need chemistry to survive has helped sustain me through my education as a future biochemist. This semester, I enrolled in Biochemistry Lab. In this class I have learned many significant skills that have not only helped me accomplish this course but that will help me in the future. Throughout this semester I learned the different methods used to purify proteins, Isolate DNA from mammalian cells and plant cells, amplify a target DNA sequence, expressed genes, learned how a restriction digest works, learned about plasmids, transformation, ligation, how bioinformatics works, and others. I was able to use previous knowledge to help me clearly explain and write extensive lab reports associated with the techniques previously stated. In these reports I was able to represent my data and explain these results by using already learned skills or by reviewing past research done on the experiment. Furthermore, by doing my own research in the experiments I was able to admire and understand the importance that these topics and skills have done in the research world.

Although I have learned many skills in this lab I believe that I still have many more techniques to master. In order to do so, I will need to practice more and do further studies in topics related to the experiment of interest. I think that the only way to practice these techniques will be by joining a research lab or getting an internship in associated research fields. For now, I can further my studies by reading more literature about new techniques and applications that have been developed.

In the future, the skills and techniques learned in this class will be used in my current research lab. In this lab we use many molecular biology methods. And thanks to biochemistry lab I am able to practice the skills learned in class in my lab. In my future research carrier, whether medical or in a graduate program, everything learned in this class will hopefully help me stand out among other workers and students.