

## **Teaching Reflections - CIS 420 Database Systems**

I have taught this course twice (Fall 2017, Fall 2018) in SUNY Potsdam. Database is one of my fields of research expertise and therefore, I was comfortable in making my own prep for the course. In this course, I introduced several new topics that were not covered before, e.g. BigData concepts, NOSQL, use of commercial cloud centers. To have the students understand the state of the field in the commercial world, I require students to read, present, and discuss BigData related research papers from Google, Facebook and Amazon. We also have closely studied how data is stored in Google datacenters.

The current course content is 75% traditional database systems and 25% bigdata concepts. As I offer this course in the next few years, I will be working to modify the course to increase the Bigdata related content. This effort will benefit students in the job market and help them obtain internships in leading firms, as most of them are largely data focused. I would also like to add more programming (SQL) assignments as some of the students felt like a lab would have helped them in better understanding SQL.

I noticed from the student evaluations that they were not clear about the due dates for the project phases. I have been announcing due dates in class and I believe the students who were not clear about the due dates might have been absent or late to class. To resolve this problem, I'll be posting the due dates along with the grading rubric on Moodle.

This course will also become one of the core courses in the new Data-Analytics concentration that our department will be offering in very near future.