

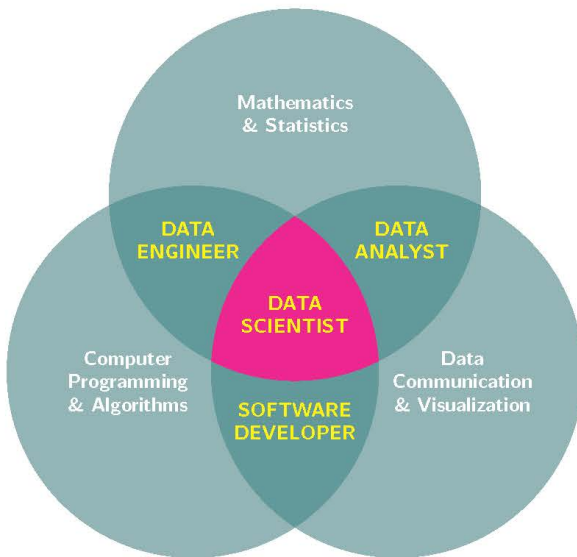
*Starting Fall 2019*

# Data Science Certificate

Department of Computer Science

**Data Scientist is the #1 Best Job in the United States.**

Data Scientist has been named the best job in the United States for three years running, with a median base salary of \$110,000 and 4,524 job openings.<sup>1</sup>



## What is Data Science?

*“Data science is a ‘concept to unify statistics, data analysis, machine learning and their related methods’ in order to ‘understand and analyze actual phenomena’ with data.<sup>2</sup> It employs techniques and theories drawn from many fields within the context of mathematics, statistics, information science, and computer science.”<sup>3</sup>*

## More Information:

[http://cs.appstate.edu/data\\_science](http://cs.appstate.edu/data_science)

## Questions:

Dr. Mitch Parry ([parryrm@appstate.edu](mailto:parryrm@appstate.edu))

## Program Requirements (A five course program):

- C S 2435 -- Introduction to Scientific Programming (Python)<sup>4</sup>
- C S 3435 -- Data Collection and Visualization (Python)
- MAT 2240 -- Linear Algebra
- STT 3850 -- Statistical Data Analysis I
- C S 4755 -- Applied Machine Learning

<sup>1</sup>[https://www.glassdoor.com/List/Best-Jobs-in-America-LST\\_KQ0,20.htm](https://www.glassdoor.com/List/Best-Jobs-in-America-LST_KQ0,20.htm)

<sup>3</sup>[https://doi.org/10.1007%2F978-4-431-65950-1\\_3](https://doi.org/10.1007%2F978-4-431-65950-1_3)

<sup>3</sup>Quoted from [https://en.wikipedia.org/wiki/Data\\_science](https://en.wikipedia.org/wiki/Data_science)

<sup>4</sup>Students with credit for C S 1445 or C S 2440 may skip C S 2435.