

# Omaha Data Science Academy 2017 Schedule



- Fundamentals of Data Science Certificate
- Masters Classes

Month	Course Title	Start Date	Duration	Price	Category
January	Basics of Python Programming	1/23	7 weeks	\$5,500	Fundamentals of Data Science Certificate
February	Data Manipulation & Management	3/20	4 weeks	\$3,500	Fundamentals of Data Science Certificate
March	Advanced Data Visualization using Tableau	3/20	4 weeks	\$5,500	Masters Classes
April	Advanced Predictive Modeling	5/1	4 weeks	\$5,500	Masters Classes
May	Statistics & Computational Modeling	5/1	7 weeks	\$5,500	Fundamentals of Data Science Certificate
June	Basics of Python Programming	6/19	7 weeks	\$5,500	Fundamentals of Data Science Certificate
July	Data Visualization using Tableau	7/3	4 weeks	\$3,500	Fundamentals of Data Science Certificate
August	Data Manipulation & Management	8/14	4 weeks	\$3,500	Fundamentals of Data Science Certificate
September	Advanced Data Visualization using Tableau	8/14	4 weeks	\$5,500	Masters Classes
October	Advanced Predictive Modeling	9/25	4 weeks	\$5,500	Masters Classes
November	Statistics & Computational Modeling	9/25	7 weeks	\$5,500	Fundamentals of Data Science Certificate
December	Machine Learning	11/20	4 weeks	\$5,500	Masters Classes
	Data Visualization using Tableau	11/27	4 weeks	\$3,500	Fundamentals of Data Science Certificate

## Fundamentals of Data Science Certificate

Class	Time	Cost	Prerequisite
Basics of Python Programming	7 weeks	\$5,500	None
Data Manipulation & Management	4 weeks	\$3,500	Basics of Python Programming*
Statistics & Computational Modeling	7 weeks	\$5,500	Basics of Python Programming*
Data Visualization using Tableau	4 weeks	\$3,500	Basics of Python Programming*

## Tier 2 Predictive Analytics

Class	Time	Cost	Prerequisite
Advanced Data Visualization using Tableau	4 weeks	\$5,500	Data Visualization using Tableau
Machine Learning	4 weeks	\$5,500	None – However, must have professor approval
Advanced Predictive Modeling	4 weeks	\$5,500	Statistics & Computational Modeling

\*Can test out of Basics of Python Programming

\*\*Classes do have minimum and maximum number of students to be taught. If a class does not fill, it will simply float until there is enough interest to be scheduled. If more than 10 students enroll in a course, a waiting list will be created.

**Basics of Python Programming** – Python is a great language to code in now. Websites, hardware, Raspberry Pi, all can use Python. Students will learn how to use Python in each of these instances. This is a non-mathematical class.

**Data Manipulation & Management** – The class teaches the foundations of SQL needed to build a “typical” ETL (Extract Transfer Load) process with the focus on the manipulations needed to extract and load data in tables.

**Statistics & Computational Modeling** – Learn how to create predictive models using multivariate regression techniques and stochastic simulations.

**Data Visualization using Tableau** – Data visualization is key to helping non-technical business users to understand findings. In this class we will teach the fundamentals of data visualization using Tableau, an industry-wide benchmark for quality visualization tools. Students will learn the necessary skills to earn Quality Associate Certification.

**Advanced Data Visualization using Tableau** – This class will teach the necessary skills for a Certified Professional Certificate.

**Machine Learning** – Machine learning is in high demand in the economy. This class will give the student an overview into how to develop computer programs in Python that can teach themselves to grow and change when exposed to new data.

**Advanced Predictive Modeling** – This class will dive deeper into advanced modeling to find answers to complicated questions. Modeling learned will include Random Forests, Boosted Trees, and Neural Networks.