Data Analyst Nanodegree: General Timeline
July cohort and beyond
Updated 7/2/15

Program Timeline

Your **Nanodegree program** is an *epic adventure.* Each week, you'll learn and apply new skills, and share successes and challenges with your learning community. Whatever your pace or daily schedule along the way, use the checklist below as a tool to make sure you stay on track with your cohort and cross the finish line to graduation. We can't wait to see where your adventure takes you!

**Aside from the first week, all dates listed are Mondays. Tasks listed should be completed before the following Monday. Links will take you right to the classroom to tackle the tasks! Submission deadlines are indicated in orange and work should always be submitted by Monday of the following week.*

Click here to download this timeline, and here to see how to mark tasks as completed.

Week	What to work on
Week 0	☐ Enroll! ☐ Watch the welcome video ☐ Complete the Readiness Assessment
Project 0: Find the Optimal Chopstick Length ***Learn the skills in Lesson 1 of Statistics***	
Week 1 8/30	☐ Go through your Nanodegree Orientation ☐ If needed, review Lesson 1 ☐ Complete and **submit Project 0: Find the Optimal Chopstick Length** for *feedback on your progress so far!*
Project 1: Test a Perceptual Phenomenon ***Learn the skills in Statistics***	
Week 2 9/6	☐ Use the Statistics Placement Advisor to determine how much of the Statistics course you will need. ☐ If needed, review Lesson 2 and Lesson 3
Week 3 9/13	☐ If needed, review Lesson 4 and Lesson 5
Week 4 9/13	☐ If needed, review Lesson 6 and Lesson 7
Week 5	☐ If needed, review Lesson 8 and Lesson 9
Week 6	☐ If needed, review Lesson 10a, Lesson 10b, and Lesson 11

Week 7	❑ Complete and **submit Project 1: Test a Perceptual Phenomenon**
Project 2: Analyzing the NYC Subway Dataset ***Learn the skills in Intro to Data Science***	
Week 8	❑ Complete Lesson 1: Introduction ❑ Complete Problem Set 1: Titanic Survivor Data ❑ Get more familiar with Numpy and Pandas by exploring their documentation
Week 9	❑ Complete Lesson 2: Data Wrangling ❑ Complete Problem Set 2: Wrangling Subway Data ❑ Continue exploring Numpy and Pandas
Week 10	❑ Complete Lesson 3: Data Analysis ❑ Complete Problem Set 3: Analyzing Subway Data ❑ Review the extra materials on the Mann-Whitney U-Test, Linear Regression and Gradient Descent, available in the Downloadables section of any video in Lesson 3
Week 11	❑ Complete Lesson 4: Data Visualization ❑ Complete Problem Set 4: Visualizing Subway Data ❑ Make a variety of different visualizations of the subway data on your own computer
Week 12	❑ Begin work on Project 2 ❑ Make sure you read the rubric closely ❑ Consider using iPython Notebook (which comes with Anaconda) to explore the dataset on your own computer
Week 13	❑ Continue work on Project 2 ❑ **Submit Project 2: Analyzing the NYC Subway Dataset**
Project 3: Data Wrangle OpenStreetMaps Data ***Learn the skills in Data Wrangling with MongoDB***	
Week 14	❑ Complete Lesson 1: Data Extraction Fundamentals ❑ Complete the Lesson 1 Problem Set ❑ Learn more about File IO and reading and writing CSVs in Python
Week 15	❑ Complete Lesson 2: Data in More Complex Formats ❑ Complete the Lesson 2 Problem Set ❑ Try using BeautifulSoup to parse a web page on your own computer
Week 16	❑ Complete Lesson 3: Data Quality ❑ Complete the Lesson 3 Problem Set
Week 17	❑ Complete Lesson 4: Working with MongoDB ❑ Complete the Lesson 4 Problem Set ❑ Install MongoDB and try running some queries locally
Week 18	❑ Complete Lesson 5: Analyzing Data ❑ Complete the Lesson 5 Problem Set ❑ Starting preparing for Project 2 by reading the description and reviewing the rubric
Week 19	❑ Complete Lesson 6: Case Study - Openstreetmap Data

	❑ Choose what area's OpenStreetMap data you will clean, and follow these instructions to download the data
Week 20	❑ Continue work on Project 3
Week 21	❑ **Submit Project 3: Data Wrangle OpenStreetMaps Data**
Project 4: Explore and Summarize Data ***Learn the skills in Data Analysis with R***	
Week 22	❑ Complete Lesson 1: What is EDA? ❑ Complete Lesson 2: R Basics ❑ Install the R programming language and RStudio ❑ Download the datasets for the course ❑ Begin reviewing R introductory tutorials
Week 23	❑ Complete Lesson 3: Explore One Variable ❑ Complete Problem Set 3, where you will explore single variables from the diamonds dataset ❑ Continue reviewing R examples and tutorials
Week 24	❑ Complete Lesson 4: Explore Two Variables ❑ Complete Problem Set 4, where you will explore pairs of variables in the diamonds dataset ❑ Starting preparing for Project 3 by reading the description and reviewing the rubric. You can also checkout the example project.
Week 25	❑ Complete Lesson 5: Explore Many Variables ❑ Complete Problem Set 5, where you will further explore the diamonds dataset
Week 26	❑ Complete Lesson 6: Diamonds & Price Predictions
Week 27	❑ Choose and download a dataset for Project 4 ❑ Perform an initial exploration of your dataset, remembering to carefully document observations
Week 28	❑ Finish Project 4 ❑ Create your RMD file and review your project report (the HTML file) before submission
Week 29	❑ **Submit Project 4: Explore and Summarize Data** ❑ Learn more about Improving Your Career and fill out more of your profile.
Project 5: Identifying Fraud from Enron Email ***Learn the skills in Intro to Machine Learning***	
Week 30	❑ Complete Lesson 0: Welcome ❑ Complete Lesson 1: Naive Bayes ❑ If you haven't yet, download Anaconda. This comes with scikit-learn, which you will need for the course.
Week 31	❑ Complete Lesson 2: SVM
Week 32	❑ Complete Lesson 3: Decision Trees ❑ Complete Lesson 4: Choose Your Own Algorithm
Week 33	❑ Complete Lesson 5: Datasets and Questions

Week 34	❑ Complete Lesson 6: Regressions ❑ Complete Lesson 7: Outliers
Week 35	❑ Complete Lesson 8: Clustering ❑ Complete Lesson 9: Feature Scaling
Week 36	❑ Complete Lesson 10: Text Learning ❑ Complete Lesson 11: Feature Selection ❑ Starting preparing for Project 4 by reading the description and reviewing the rubric- make sure you review the guiding questions!
Week 37	❑ Complete Lesson 12: PCA ❑ Complete Lesson 13: Validation
Week 38	❑ Complete Lesson 14: Evaluation Metrics ❑ Complete Lesson 15: Tying It All Together
Week 39	❑ Begin working on Project 5
Week 40	❑ Continue working on Project 5 ❑ Remember to document all your observations! They will be very helpful for the final project report
Week 41	❑ **Submit Project 5: Identifying Fraud from Enron Email**
Project 6: Tell Stories with with Data Visualization ***Learn the skills in Data Visualization and D3.js***	
Week 42	❑ Complete Lesson 1a: Visualization Fundamentals ❑ Download D3.js and dimple.js
Week 43	❑ If you are unfamiliar with HTML or CSS, or need a refresher, go through Intro to HTML and CSS
Week 44	❑ If you are unfamiliar with JavaScript, or need a refresher, go through JavaScript Basics
Week 45	❑ Complete Lesson 1b: D3 Building Blocks ❑ Complete Problem Set 1, including Mini-Project 1
Week 46	❑ Complete Lesson 2a: Design Principles
Week 47	❑ Complete Lesson 2b: Dimple.js ❑ Complete Problem Set 2, including Mini-Project 2
Week 48	❑ Complete Lesson 3: Narrative Structures
Week 49	❑ Begin work on Lesson 4: Animation and Interaction
Week 50	❑ Complete Lesson 4
Week 51	❑ Review the Project 6 description and rubric and begin work on Project 5
Week 52	❑ Iterate on Project 6 ❑ Share your visualization with your friends and family, and update it based on their feedback
Week 53	❑ **Submit Project 6: Make Effective Data Visualization**
Project 7: Design and Analyze an A/B Test ***Learn the skills in A/B Testing***	

Week 54	❑ Complete Lesson 1 and Lesson 2
Week 55	❑ Complete Lesson 3
Week 56	❑ Complete Lesson 4
Week 57	❑ Complete Lesson 5 ❑ Review the Project 7 instructions, submission template, and rubric and begin work on Project 7
Week 58	❑ **Submit Project 7: Design and Analyze an A/B Test** ❑ Complete the Final Steps to verify your project submissions and schedule your exit interview!