

Data Analyst Nanodegree: General Timeline

June 2015 and earlier

Updated 5/28/2015



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	<ul style="list-style-type: none"><input type="checkbox"/> Enroll!<input type="checkbox"/> Watch the welcome video<input type="checkbox"/> Complete the Readiness Assessment<input type="checkbox"/> Go through your Nanodegree Orientation<input type="checkbox"/> Install the libraries you will need to get started with the first course
Project: Analyzing the NYC Subway Dataset Learn the skills in Intro to Data Science	
Week 1	<ul style="list-style-type: none"><input type="checkbox"/> Complete Lesson 1: Introduction<input type="checkbox"/> Complete Problem Set 1: Titanic Survivor Data<input type="checkbox"/> Get more familiar with Numpy and Pandas by exploring their documentation
Week 2	<ul style="list-style-type: none"><input type="checkbox"/> Complete Lesson 2: Data Wrangling<input type="checkbox"/> Complete Problem Set 2: Wrangling Subway Data<input type="checkbox"/> Continue exploring Numpy and Pandas
Week 3	<ul style="list-style-type: none"><input type="checkbox"/> Complete Lesson 3: Data Analysis<input type="checkbox"/> Complete Problem Set 3: Analyzing Subway Data<input type="checkbox"/> 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 4	<ul style="list-style-type: none"><input type="checkbox"/> Complete Lesson 4: Data Visualization

	<input type="checkbox"/> Complete Problem Set 4: Visualizing Subway Data <input type="checkbox"/> Make a variety of different visualizations of the subway data on your own computer
Week 5	<input type="checkbox"/> Begin work on Project <input type="checkbox"/> Make sure you read the rubric closely
Week 6	<input type="checkbox"/> Continue work on Project
Week 7	<input type="checkbox"/> Continue work on Project <input type="checkbox"/> Consider using iPython Notebook (which comes with Anaconda) to explore the dataset on your own computer
Week 8	<input type="checkbox"/> Submit Project: Analyzing the NYC Subway Dataset
<i>Project: Data Wrangle OpenStreetMaps Data</i> <i>Learn the skills in Data Wrangling with MongoDB</i>	
Week 9	<input type="checkbox"/> Complete Lesson 1: Data Extraction Fundamentals <input type="checkbox"/> Complete the Lesson 1 Problem Set <input type="checkbox"/> Learn more about File IO and reading and writing CSVs in Python
Week 10	<input type="checkbox"/> Complete Lesson 2: Data in More Complex Formats <input type="checkbox"/> Complete the Lesson 2 Problem Set <input type="checkbox"/> Try using BeautifulSoup to parse a web page on your own computer
Week 11	<input type="checkbox"/> Complete Lesson 3: Data Quality <input type="checkbox"/> Complete the Lesson 3 Problem Set
Week 12	<input type="checkbox"/> Complete Lesson 4: Working with MongoDB <input type="checkbox"/> Complete the Lesson 4 Problem Set <input type="checkbox"/> Install MongoDB and try running some queries locally
Week 13	<input type="checkbox"/> Complete Lesson 5: Analyzing Data <input type="checkbox"/> Complete the Lesson 5 Problem Set <input type="checkbox"/> Starting preparing for Project 2 by reading the description and reviewing the rubric
Week 14	<input type="checkbox"/> Complete Lesson 6: Case Study - Openstreetmap Data <input type="checkbox"/> Choose what area's OpenStreetMap data you will clean, and follow these instructions to download the data
Week 15	<input type="checkbox"/> Continue work on Project
Week 16	<input type="checkbox"/> Submit Project: Data Wrangle OpenStreetMaps Data
<i>Project: Explore and Summarize Data</i> <i>Learn the skills in Data Analysis with R</i>	
Week 17	<input type="checkbox"/> Complete Lesson 1: What is EDA? <input type="checkbox"/> Complete Lesson 2: R Basics <input type="checkbox"/> Install the R programming language and RStudio <input type="checkbox"/> Download the datasets for the course <input type="checkbox"/> Begin reviewing R introductory tutorials
Week 18	<input type="checkbox"/> Complete Lesson 3: Explore One Variable <input type="checkbox"/> Complete Problem Set 3 , where you will explore single variables from the diamonds dataset <input type="checkbox"/> Continue reviewing R examples and tutorials

Week 19	<input type="checkbox"/> Complete Lesson 4: Explore Two Variables <input type="checkbox"/> Complete Problem Set 4 , where you will explore pairs of variables in the diamonds dataset <input type="checkbox"/> Starting preparing for Project 3 by reading the description and reviewing the rubric . You can also checkout the example project .
Week 20	<input type="checkbox"/> Complete Lesson 5: Explore Many Variables <input type="checkbox"/> Complete Problem Set 5 , where you will further explore the diamonds dataset
Week 21	<input type="checkbox"/> Complete Lesson 6: Diamonds & Price Predictions
Week 22	<input type="checkbox"/> Choose and download a dataset for Project <input type="checkbox"/> Perform an initial exploration of your dataset, remembering to carefully document observations
Week 23	<input type="checkbox"/> Finish Project <input type="checkbox"/> Create your RMD file and review your project report (the HTML file) before submission
Week 24	<input type="checkbox"/> Submit Project : Explore and Summarize Data <input type="checkbox"/> Learn more about Improving Your Career and fill out more of your profile .
<i>Project: Identifying Fraud from Enron Email</i> <i>Learn the skills in Intro to Machine Learning</i>	
Week 25	<input type="checkbox"/> Complete Lesson 0: Welcome <input type="checkbox"/> Complete Lesson 1: Naive Bayes <input type="checkbox"/> If you haven't yet, download Anaconda . This comes with scikit-learn , which you will need for the course.
Week 26	<input type="checkbox"/> Complete Lesson 2: SVM
Week 27	<input type="checkbox"/> Complete Lesson 3: Decision Trees <input type="checkbox"/> Complete Lesson 4: Choose Your Own Algorithm
Week 28	<input type="checkbox"/> Complete Lesson 5: Datasets and Questions
Week 29	<input type="checkbox"/> Complete Lesson 6: Regressions <input type="checkbox"/> Complete Lesson 7: Outliers
Week 30	<input type="checkbox"/> Complete Lesson 8: Clustering <input type="checkbox"/> Complete Lesson 9: Feature Scaling
Week 31	<input type="checkbox"/> Complete Lesson 10: Text Learning <input type="checkbox"/> Complete Lesson 11: Feature Selection <input type="checkbox"/> Starting preparing for Project 4 by reading the description and reviewing the rubric - make sure you review the guiding questions!
Week 32	<input type="checkbox"/> Complete Lesson 12: PCA <input type="checkbox"/> Complete Lesson 13: Validation
Week 33	<input type="checkbox"/> Complete Lesson 14: Evaluation Metrics <input type="checkbox"/> Complete Lesson 15: Tying It All Together
Week 34	<input type="checkbox"/> Begin working on Project
Week 35	<input type="checkbox"/> Continue working on Project

	<input type="checkbox"/> Remember to document all your observations! They will be very helpful for the final project report
Week 36	<input type="checkbox"/> Submit Project: Identifying Fraud from Enron Email
<i>Project: Tell Stories with Data Visualization</i> <i>Learn the skills in Data Visualization and D3.js</i>	
Week 37	<input type="checkbox"/> Complete Lesson 1a: Visualization Fundamentals <input type="checkbox"/> Download D3.js and dimple.js
Week 38	<input type="checkbox"/> If you are unfamiliar with HTML or CSS, or need a refresher, go through Intro to HTML and CSS
Week 39	<input type="checkbox"/> If you are unfamiliar with JavaScript, or need a refresher, go through JavaScript Basics
Week 40	<input type="checkbox"/> Complete Lesson 1b: D3 Building Blocks <input type="checkbox"/> Complete Problem Set 1 , including Mini-Project 1
Week 41	<input type="checkbox"/> Complete Lesson 2a: Design Principles
Week 42	<input type="checkbox"/> Complete Lesson 2b: Dimple.js <input type="checkbox"/> Complete Problem Set 2 , including Mini-Project 2
Week 43	<input type="checkbox"/> Complete Lesson 3: Narrative Structures
Week 44	<input type="checkbox"/> Begin work on Lesson 4: Animation and Interaction
Week 45	<input type="checkbox"/> Complete Lesson 4
Week 46	<input type="checkbox"/> Review the Project description and rubric and begin work on Project
Week 47	<input type="checkbox"/> Iterate on Project <input type="checkbox"/> Share your visualization with your friends and family, and update it based on their feedback
Week 48	<input type="checkbox"/> Submit Project: Make Effective Data Visualization
<i>Project: Design and Analyze an A/B Test</i> <i>Learn the skills in A/B Testing</i> <i>*required for cohorts April 2015 and following</i>	
Week 49	<input type="checkbox"/> Complete Lesson 1 and Lesson 2
Week 50	<input type="checkbox"/> Complete Lesson 3
Week 51	<input type="checkbox"/> Complete Lesson 4
Week 52	<input type="checkbox"/> Complete Lesson 5 <input type="checkbox"/> Review the Project instructions , submission template , and rubric and begin work on Project
Week 53	<input type="checkbox"/> Submit Project: Design and Analyze an A/B Test <input type="checkbox"/> Complete the Final Steps to verify your project submissions and schedule your exit interview!