









## DAT-203: Visualization and warehousing Course schedule | CCAC | Spring 2020 | West Hills Center



The following table maps course session dates, lesson topics, references, and content links for all three Data Analytics courses in the series.



course	date	wk no.	session links	learning objectives	out-of-class work
DAT-203	Thursday 30-JAN-2020	1	<p><b>Indicies</b></p> <ul style="list-style-type: none"> <li>🔑 <a href="#">Wikipedia quality index spreadsheet template</a></li> </ul>	Creating indicies to aggregate several measures	<p>Create a sharable directory</p> <p>Create a spreadsheet to compute index values for wikipedia and non-wikipedia sources</p> <p>Sample a handful of sites around three different topics</p> <p>Create a directory in our shared drive linked below and upload your findings. Use first names only.</p> <p>🔑 <a href="#">Shared onedrive for uploads</a></p>
DAT-203	Thursday 6-February-2020	2	<p><b>Categorical data I: Country-level development indicies</b></p> <ul style="list-style-type: none"> <li>🔑 <a href="#">Aggregating measures with indicies</a></li> </ul>		<ol style="list-style-type: none"> <li>1. Create a git repository dedicated to your work for this course, DAT-203. Email Eric a link to your repo, please.</li> <li>2. Compile a multi-country comparison of two or more development index values as described in our index mini-project.</li> </ol>

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-203	Thursday 13-February- 2020	3	<p><b>Categorical data II: Visualizing with pandas &amp; R</b></p> <p>Synchronous Zoom only @ 6:00pm; Don't drive to North!</p> <p>Zoom meeting info Time: Feb 13, 2020 06:00 PM Eastern Time (US and Canada) Join Zoom Meeting <a href="https://ccac.zoom.us/j/6149618122">https://ccac.zoom.us/j/6149618122</a> Meeting ID: 614 961 8122 Phone audio: 646.558.8656</p> <p> <a href="#">link</a></p>		
DAT-203	Thursday 20-February- 2020	4	<p><b>Continuous quants I: Manipulations in spreadsheets</b></p> <p> <a href="#">link</a></p>		
DAT-203	Thursday 27-February- 2020	5	<p><b>Continuous quants II: Visualizing with pandas &amp; R</b></p> <p> <a href="#">link</a></p>		

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-203	Thursday 5-March-2020	6	<b>Time-series data I: Manipulating in spreadsheets</b>  <a href="#">link</a>		
DAT-203	Thursday 12-March-2020	7	<b>Time-series data II: Visualizing in pandas and R</b>  <a href="#">link</a>		
DAT-203	Thursday 19-March-2020	8	<b>Qualitative analysis in a whirlwind</b>  MIT OCW, Day 4: Text processing		
DAT-203	Thursday 26-March-2020	9	<b>Part I: Confidence intervals &amp; hyp testing: Visualizing statistical relationships</b>  <a href="#">link</a>  <b>Part II: Confidence intervals &amp; hyp testing: Quantitative underpinnings</b>		

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-203	Thursday 2-April-2020	10	<b>Visualization miniproject: sharing</b>  <a href="#">link</a>		
DAT-129	Thu 9-April-2020	XXX	<b>Break</b> No class meeting!	xxx	Go play!

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-203	Thursday 16-April-2020	11	<p><b>Part A: Data warehousing basics: Diagramming data chains</b></p> <p> <a href="#">link</a></p> <p><b>DW part A: Data warehousing basics</b></p> <p>Diagramming data pipelines at the macro level from acquisition to managerial dashboarding</p> <p> <a href="#">link</a></p> <p><b>DW part B: Databases to warehouses</b></p> <p>What is the relationship between operational relational databases, such as point-of-sale systems, and a data warehouse?</p>		

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-203	Thursday 23-April-2020	12	<p><b>DW part C: Configuring and migrating a warehouse chain</b></p> <p> <a href="#">Open source data warehouse and BI platforms</a></p> <p><b>DW part D: Business "intelligence" in dashboards</b></p> <p>With data dashboards springing up in the most unlikely of industries, we must distill best practices in their design</p>		
DAT-203	Thursday 30-April-2020	13	<p><b>Data warehouse and dashboard group project</b></p> <p>Work with your peers to create a mini tool-chain from multiple discrete sources into a warehouse and into a simple dashboard for visualization and manipulation</p>		
DAT-203	Thursday 7-May-2020	14	<p><b>Share final projects</b></p> <p> <a href="#">link</a></p>		

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