











## Course concept progression

The following table maps course session dates, lesson topics, references, and content links for ATE-252, a cross-disciplinary exploration of issues in transportation analytics.

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-129	Wed 29-Jan-2020	1	<p><b>Intro to course and data structure exercise</b></p> <ul style="list-style-type: none"> <li> <a href="#">Course syllabus</a></li> <li> <a href="#">Module: Icon manipulation</a></li> </ul>		<ol style="list-style-type: none"> <li>Complete phase 1 specification in <a href="#">the icon moudle</a></li> <li>Update or create a git respository to house your work in this class. <a href="#">Setting up GIT tutorial</a></li> <li>Email Eric at <a href="mailto:edarsow@ccac.edu">edarsow@ccac.edu</a> with a URL to your current respository for posting on our course website</li> </ol>
DAT-129	Wed 5-Feb-2020	2	<p><b>Dictionaries, JSON, and git</b></p> <ul style="list-style-type: none"> <li> <a href="#">Module: Icon manipulation</a></li> <li><a href="#">git branching, forking, and pull requests</a></li> <li> <a href="#">Map-based data: all hail the dict type!</a></li> </ul>	Implement code modularity suggestions in a peer's project	<ol style="list-style-type: none"> <li>Clone down a peer's git repository from last week. Create a new branch from their primary work branch on which you can make adjustments without interfering with their workflow.</li> <li>Implement functionality to allow for display of an icon written to a text file. The program should ask the user for the name of the file (assuming it's in script's directory) AND the character used to represent no shading and the character used to represent shading.</li> </ol>

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-129	Wed 12-Feb-2020	3	<b>File i/o, JSON, and git</b>  <a href="#">link</a>		1.
DAT-129	Wed 19-Feb-2020	4	<b>Query spec building in JSON; advanced git</b>  <a href="#">link</a>		1.
DAT-129	Wed 26-Feb-2020	5	<b>Unit testing</b> Content to be developed		1.

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-129	Wed 4-March-2020	6	<p><b>Application programming interfaces 1</b></p> <ul style="list-style-type: none"> <li>The urllib package for python 3 provides a suite of tools for fetching URL data. I believe it uses the Requests library in the back end.</li> <li>Requests library (http for humans)</li> <li>Api directory at Programmable Web</li> </ul>		1.
DAT-129	Wed 11-March-2020	7	<p><b>Application programming interfaces: Share mini-projects</b></p>		1.
DAT-129	Wed 18-March-2020	8	<p><b>Object-oriented python</b></p>		1.
DAT-129	Wed 25-March-2020	9	<p><b>Web fundamentals &amp; scraping</b></p>		1.

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-129	Wed 1-April-2020	10	<b>Scraping mini project sharing</b>		1.
DAT-129	Wed 8-April-2020	X	<b>Break</b> No class meeting!		1.
DAT-129	Wed 15-April-2020	11	<b>OS &amp; file tree traversals</b>  <a href="#">link</a>		1.
DAT-129	Wed 22-April-2020	12	<b>Database connectivity</b> <a href="#">PA crash data home</a> First 100 rows of the 1+ GB CSV file for testing		1.
DAT-129	Wed 29-April-2020	12	<b>Python on the web with Django!</b>  <a href="#">Django tutorial main</a>  <a href="#">Django home page</a> <b>Final project design consultations</b>  <a href="#">Final project specifications</a>		1.

course	date	wk no.	session links	learning objectives	out-of-class work
DAT-129	Wed 6-May-2020	14	<p><b>Final grade proposals</b></p> <p>Note: Attendance at final session and sharing of fully-baked final project is required to sufficiently justify a grade proposal of A or B except for pre-approved absences and “urgent, incidental, overriding life events”</p> <p><b>Final project Sharing</b></p>		1.

Page created in 2020 by Eric Xander Darsow and all non-linked content can be freely reproduced without any permission or attribution according to the [site's content use agreement](#). Any links to other content is governed by each page's respective usage rights context.