**USP 510: Regional Economic Development Lab**  
Prof. Greg Schrock and Sheila Martin  

Time: Tuesdays 3:30-4:20pm (immediately following lecture)  
Location: Urban Center Room 225  

This one-credit lab section supplements USP 572, Regional Economic Development, by providing a hands-on environment for students to learn about data sources and analytical tools that are important for analyzing regional economies and labor markets. Students will use the lab section to access and obtain data for a metropolitan region, which they will use for their term project in USP 572.  

The course is **optional but highly recommended** for students enrolled in USP 572, and is open only to students in that course. There will be no separate assignments for this lab section; all work done in this course will be applied toward USP 572, and students’ grade will be based on their performance in USP 572.  

**Course overview**  

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1 (Apr 3)</td>
<td><strong>Overview of sources:</strong> This session will provide a broad overview of data sources (i.e., BLS, Census, BEA, state LMI agencies) and data concepts that are important to doing regional economic analysis.</td>
</tr>
<tr>
<td>Week 2 (Apr 10)</td>
<td><strong>Industry Employment Data:</strong> This session will introduce various sources for analyzing the industrial composition of a regional economy, and discuss their pros and cons for different applications. Issues such as dealing with nondisclosure in employment data and changing classification systems will be discussed. Students will download and prepare an industry employment dataset for the following week’s class.</td>
</tr>
<tr>
<td>Week 3 (Apr 17)</td>
<td><strong>Economic Base/Shift-Share Analysis:</strong> This session will provide a step-by-step overview for conducting economic base (location quotient) analysis and shift-share analysis on the industry employment datasets that students will have developed in the preceding week.</td>
</tr>
<tr>
<td>Week 4 (Apr 24)</td>
<td><strong>Labor Market Analysis I:</strong> This session will introduce data sources for analyzing the occupational composition of a regional economy, education and training requirements for jobs, and wage and income data.</td>
</tr>
<tr>
<td>Week 5 (May 1)</td>
<td><strong>Labor Market Analysis II: OnTheMap:</strong> This session will introduce an important (and continually evolving) tool by the Census Bureau called OnTheMap, which uses linked employer-household administrative data to map the locations of jobs and workers by different characteristics.</td>
</tr>
<tr>
<td>Week 6 (May 8)</td>
<td><strong>Using Public Use Microdata Samples (PUMS):</strong> This session will introduce PUMS files as a tool for generating customized tabulations of regional demographic and socio-economic characteristics from the Census and American Community Survey.</td>
</tr>
<tr>
<td>Week 7 (May 15)</td>
<td><strong>Researching Firms:</strong> This session will introduce proprietary databases such as OLMIS and Dun &amp; Bradstreet that can be used to identify important business establishments</td>
</tr>
</tbody>
</table>
in a regional economy.

<table>
<thead>
<tr>
<th>Week 8 (May 22)</th>
<th><strong>Input-Output Analysis:</strong> This session will introduce basic concepts of input-output analysis and basic regional multipliers (i.e., RIMS II), with an emphasis on the core assumptions underlying such models.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 9 (May 29)</td>
<td><strong>Economic Impact Models I: IMPLAN.</strong> First of two sessions that provide a brief overview of regional economic impact modeling software commonly used in the ED field, this week IMPLAN.</td>
</tr>
<tr>
<td>Week 10 (June 5)</td>
<td><strong>Economic Impact Models II: REMI.</strong> Second of two sessions that provide a brief overview of regional economic impact modeling software commonly used in the ED field, this week REMI.</td>
</tr>
</tbody>
</table>