## Final Project

9 groups of size 3, 1 group of size 4

Section 1: 3 groups of size 3, 1 group of size 4

Section 2: 5 groups of size 3, 1 group of size 4

End of week 9 - proposal due (20 pts)

* Introduction (5 pts)
* Data analysis plan (10 pts)
* Data (2 pts)
* Document organization and writing (3 pts)

Last 1-2 days of class - presentations (5-8mins each) (25 pts); peers' scores (5 pts)

Last day of class - Project report/write up (35 points); peer evaluation (10 pts)

Code/package/repro (5 pts) ?

Option 1: Poster and R package

Option 2: Poster and report

Do I really want to alot class time for student presentations?

Research questions first - then find data.

In report: significance of predictors does not matter, overall model fit matters and context/intent for use matters; require model for estimation/prediction (inference not required, optional but very difficult to get random data)

Transforming data: first differences for highly autocorrelated

Progress report guidelines with checklist of common mistakes to avoid

Data sources:

Police Force in US <https://www.accountablenow.com/data-explorer>

National Historical GIS (Geographic Information Systems) <https://www.nhgis.org/about-ipums-nhgis>

Urban Institute Data <https://datacatalog.urban.org/search/type/dataset>

Delaware County Homicide Data <https://delcohomicides.swarthmore.edu/>

Swarthmore Institutional Data <https://www.swarthmore.edu/institutional-research/survey-findings#Staff%20Check-In>

Our World in Data <https://ourworldindata.org/>

Plan a trip's cost with MLR

Institute for Social Research (ICPSR) <https://www.icpsr.umich.edu/web/pages/ICPSR/index.html>

# Tests

Test 2 - MLR

Final test - SLR, MLR, ANOVA (and chi squared)

Extra credit opportunity - build a model? Put together reflection prompts? Expand on a particular reflection prompt?

## Homeworks

HW 6 -

HW 7 -

HW 8 -

HW 9 -

HW 10 -

Consider: swapping final exam and final project dates ?

Pros: students get more time to work on quality project

Cons: changing up schedule too much looks unorganized, grading final projects more time consuming than final tests, students will be juggling final project amidst any other course final exams, more student demands in OH after classes have ended