

Math/Pols 128 – Mathematics and Redistricting Map Portfolio

Now that we've learned most of the relevant information, you will be using your knowledge and skills to build a portfolio of maps that achieve various goals. Each map should include some justification of how/why the map achieves the specific goal. In addition, each map's districts should be contiguous and within the proper range of population deviation. Include screenshots and a link to each of your maps. For all maps, we are assuming **Congressional districts**.

- **Racial Gerrymandering** – Using what we've learned, why would your map be considered a racial gerrymander? Use relevant statistics and analytics from the map.
 - Connecticut
 - A state of your choosing
- **Partisan Gerrymandering** – Using what we've learned, would your map be considered a partisan gerrymander? Use relevant statistics and analytics from the map.
 - Connecticut – maximize for Republicans
 - A Republican-controlled state – maximize for Democrats
- **Compactness** – Maximize the compactness scores/rating for two different states and compare them to the current maps. How did maximizing compactness affect some of the other key elements – such as demographics (majority-minority districts) and partisan balance?
 - A state of your choosing with 3-9 Congressional districts
 - A state of your choosing with at least 10 Congressional districts
- **Competitiveness** – Maximize the number of competitive districts (within the 45-55% range) for a state and compare it to the current map. You might want to look through some states and choose one that currently has a few non-competitive districts. How did maximizing competitiveness affect some of the other key elements – such as demographics (majority-minority districts) and compactness?
 - A non-commission state with at least five districts
- **"Fair" Map** – Create a map as if you are your own independent commission, using all data available to you and your own definition(s) of "fairness." Explain your choices of "fairness" in how you developed your map.
 - Connecticut
 - A state whose new map was gerrymandered in 2021