Instructor Notes for [**Global Temperature Change in the 21st Century**](http://ecoed.esa.org/index.php?P=FullRecord&ID=355&ReturnText=Search+Results&ReturnTo=index.php%3FP%3DAdvancedSearch%26Q%3DY%26FK%3DGlobal%2BTemperature%2BChange%2Bin%2Bthe%2B21st%2BCentury%26RP%3D5%26SR%3D0%26ST%3DQuick) (Daniel Taub & GIllian Graham, Southwestern University, 2011)

I broke this module into 5 different assignments that groups of 4-5 students worked on together through a 7-week term. This was for an introductory Biology class (Environmental Biology) for non-majors with lectures and no laboratory component. Students completed almost all of this work outside of class.

Assignment 1 was a pre-module assignment that introduced the concept of phenology and the impact of climate change on phenology. Students had to read primary literature articles to define and provide examples of phenology (see Assignment 1 attachment). Additionally, students had to track phenology of a chosen taxa through the term and report on that in each of their assignments.

Assignment 2 followed Exercise 1 (Comparison of temperature trends among emissions scenarios) with the modification of the removal of Question 9. The class was divided into 30 groups so I had some groups use the same latitude data.

Assignment 3 followed Exercise 2 (Comparison of temperature change across seasons). Students then uploaded the information from their latitude into a googlesheet that was shared with the entire class.

Assignment 4 followed Exercise 3 (Latitudinal Comparisons). I added supplemental questions to this assignment where students had to generate a hypothesis on geographic patterns of temperature change, predict temperature in a new location, and investigate how temperature change is impacting phenology of their chosen taxa (see Assignment 4 attachment).

Assignment 5 was the final project product where groups were tasked to teach someone about climate change and its impacts. Students were instructed to incorporate information from their previous assignments, their tracking of phonological changes, and additional sources (see Assignment 5 attachment).