Please use at least 10 of the 14 elements listed below.

1. Data pre-processed in R 10 points
   1. See R Script; removed extraneous columns, eliminated records with NA in the taxa column.
2. Create new shapefiles 5 points
   1. Maybe created a survey area and calculate geometry to find area? (see #9)
3. Editing shapefile or feature classes 10 points
   1. See #3 (created new polygon for survey area)
4. Adjust projection or geographic coordinate system 5 points
   1. Converted from WGS 1984 to GCS 1983 for continent file and projected survey area feature class into Albers Equal Area
5. Perform vector analysis (e.g., buffering; clipping) 8 points
   1. Clipping of rasters to GOM will be necessary
   2. Also used erase on survey area to fit better around coastline
6. Calculate Geometry (e.g., estimate area or distance) 10 points
   1. See #3, calculate geometry for survey area
7. Use of time-enabled data 5 points
   1. Main component, export sans rasters if need be to show changing distribution
8. Interpolation (i.e., geostatistical analysis) 15 points
   1. May want to switch this one out, but could be a good way to visualize biomass
9. Use netCDF data 10 points
   1. Main component, plankton files
10. Use raster data 10 points Rev: 2021-04-07 kr Page 2 of 2
    1. Main component, plankton rasters included.
11. ~~Define spatial relationships defined between feature classes. 8 points~~
    1. ~~Used union and clip to calculate the overlap between survey areas for summer and fall~~
    2. ~~Overlap = 72.8%~~
12. ~~Custom tool (or set of tools) created with ArcMap Model Builder 15 points~~
13. ~~Vertical profiles in ODV 10 points~~
14. ~~Raster math (e.g., cell or zonal statistics) 10 points~~