9) We define a number $n$ to be odd if it can be written as $n = 2m + 1$ (for some integer $m$) and as even if we can write it as $n = 2m$. Show (i.e. give a proof) that the product of two odd numbers is odd.

10) Consider the plane as the set of points $(x, y)$ with real coordinates $x, y \in \mathbb{R}$. In this setting, give a definition for a line and for a circle.

11) Consider the checksheet for your concentration at http://www.math.colostate.edu/programs/undergraduate/checksheets.shtml (If you have not yet picked a concentration, select the ‘General Mathematics’). For the courses in the middle column (Mathematical sciences), list which semester you would be taking each class to satisfy graduation requirements and class prerequisites. You may ignore “electives” that involve write-in classes. (Your submission would be a list of coming semesters and respective classes. E.g. SP16: MATH 161. FA16: MATH 261, MATH 369, and so on.)