

# MAT 300/500 Homework 7 – Spring 2021

Due Date: Tuesday, April 13

## For this homework, you are to turn in:

- a list of control points which, when used with the de Boor algorithm, will graph a curve (or curves) which represents a written version of your first name. (You may use a shortened version of your name if your first name is more than eight characters.)
- a graph of the curve
- the code (de Boor algorithm) that you wrote to graph the curve
- a summary page with other details described below

## Other Details:

- give the dimensions of the grid in which you are graphing the curve and which contains the control points (whether this is pixel-based or other scaled coordinate system)
- give a description of which parts of the name correspond to which sets of control points and how many curves there are in total (try to minimize the number of curves, preferably just one, as you would do in writing your name by connecting letters together)
- give the degree and knot sequence associated to each curve