Mechanical Engineering/Data Science 4+1 (BME/MS)

The MS in Data Science (MSDS) is working with Physics and Astronomy (in CAS) and Mechanical Engineering (CoE) to add the MSDS as a 4+1 option for their undergraduate degrees.

This proposal is for modification of the MSDS to add new 4+1 options for all Bachelor of Mechanical Engineering degrees from the **Department of Mechanical Engineering (ME)** to begin in the 2020-21 acdemic year.

Technically, the MSDS is not part of Mathematical Sciences (in CAS), but since the director is in Mathematical Sciences and CAS, that college is being used as the base for the proposal.

The ME undergraduate programs provide a very good background for the MSDS. The students typically receive training in computational methods, fundamental mathematics, statistics and probability. Adding this degree for one more year of study opens many possible doors for employment in industry, commerce, or government, as well as for graduate school.

ME has approved the Bachelor of Mechanical Engineering (BME) and the Honors BME (HBME) to be offered in the 4+1 (H)BME/MSDS combination. The program policy statement uploaded with this proposal includes these proposed majors for 4+1 options, with the changes marked in red text.

In all cases, the BME degree requirements must be satisfied, the MSDS requirements must be satisfied, six graduate credits from the MSDS may be applied towards the BME degree, and the BME degree must be completed before the start of the +1 year.