Physics Education/Data Science 4+1 (BA/MS)

Physics/Data Science 4+1 (BS/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 Bachelors degrees from the **Department of Physics and Astronomy (DPA)** 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 Math and CAS, that college is being used as the base for the proposal.

The DPA undergraduate programs provide a very good background for the MSDS. Our 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.

DPA has approved the following majors to be offered in 4+1 (H)Bx/MSDS combinations:  BS, BA, HBS, HBA options in each of Physics or Astronomy, as well as BA and HBA in Physics Education.   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 (H)Bx degree requirements must be satisfied, the MSDS requirements must be satisfied, six graduate credits from the MSDS may be applied towards the (H)Bx degree, and the (H)Bx degree must be completed before the start of the +1 year.