

GRADUATE CERTIFICATE IN DATA ENGINEERING

The certificate program provides education on both Theoretical Foundation (TF) of Data Engineering and Applications (AP) of Data Engineering in specific engineering domains. The certificate requires completing 12 credits of coursework. At least 6 credits must be taken from courses listed under the Theoretical Foundation (TF) category. These courses provide training on the central theory and methods of Data Engineering, informed by physical and dynamical models that generally arise in engineering processes. At least 3 credits must be taken from courses listed under the Applications (AP) category. These courses provide training on applications of Data Engineering methods in specific engineering domains, by tailoring and applying data analysis to specific data acquisition techniques and models that are suitable for a particular engineering domain. The domains currently include Signal and Image Processing, Biomedical Engineering, Computer Engineering, and Systems Engineering. Lists of approved TF courses and AP courses are provided under "Program Requirements".