







- serving as an accessible entry point into the important discipline of data science for students at all levels including high school, traditional college, and traditional.
- giving students in a wide variety of majors and disciplines the opportunity to enhance their professional capabilities by enhancing their ability to manage and analyze data.
- leading naturally into more advanced study in data science for interested students.

It is also expected that the A.S. in Data Science will be of interest to students pursuing bachelor's degrees in various applied and natural sciences degrees. It would stack naturally into bachelor's degree programs including but not limited to Biology, Biotechnology, Business Economics, Computer Science, Economics, Exercise Science, Food Science, Geographic Information Science, Microbiology, Psychology, Precision Agriculture, and Sociology. Stacking the A.S. in Data Science into these bachelor's degree programs will produce data-enabled graduates in these fields that will deliver more value in the workplace than data-enabled colleagues with otherwise similar credentials. The A.S. in Data Science will also stack naturally into the B.S. in Data Science and the B.S. in Mathematics with Data Science Specialization.

Employers of recent graduates of the SDSU Department of Mathematics and Statistics have emphasized data science in their program of study. (S) 4-40 (1) 2 (p) 4-16-1.9 (U)-6 ( J -0.01804 T.004

4. How does the proposed program relate to the university's mission as provided in South Dakota Statute and Board of Regents Policy, and to the current Board of Regents Strategic Plan 2014-2020?<sup>11</sup>

As a land grant university, SDSU is charged with serving the state and its citizens through education, research, and service. Given the professional value of data science education to individuals, and the capacity of a data-enabled workforce to drive economic growth and enhance quality of life, it is clear that the proposed program's goals align directly with SDSU's mission. The proposed major in Data Science supports the statutory mission of SDSU as provided in SDCL 13-58-1: Designated as South Dakota's land grant university, South Dakota State University, formerly the state college of agriculture and mechanical arts, shall be under the control of the Board of Regents and shall provide undergraduate and graduate programs of instruction in the liberal arts and sciences and professional education in agriculture, education, engineering, home economics, nursing and pharmacy, and other courses or programs as the Board of Regents may determine.

Board Policy 1:10:2 South Dakota State University Mission Statement provides: The legislature established South Dakota State University as the Comprehensive Land Grant University to meet the needs of the State and region by providing undergraduate and graduate programs of instruction in the liberal arts and sciences and professional education in agriculture, education, engineering, human sciences, nursing, pharmacy, and other courses or programs as the Board of Regents may determine.

universities in South Dakota.

Programs related to the proposed B.S. in Data Science include:

- SDSU BS. in Mathe-12 (D .t)-6 (h7 (c)-2LD 0 >>BDi)-6 e4c 0 T3./LBod1 e4c 0o taB0.21 . in Da Sen1.

pursuing a variety of Bachelor's degrees in the applied, social, or natural sciences may choose to complete the A.S. in Data Science in addition to their Bachelor's degree.

8. What are the university's expectations/estimates of who will complete the A.S. in Data Science in addition to their Bachelor's degree?





