

Resolution 2019-2020.F

Resolution to Approve New Major, Data-Centric Computing, in Bachelor of Science in Computer Science

Recommended by the Commission on Undergraduate Studies and Policies

First Reading:

November 11, 2019

Second Reading:

Faculty Senate:

Staff Senate:

Graduate Student Assembly:

Student Government Association:

Approved by University Council:

Approved by the President:

First Effective Date to Declare Major: Spring 2020

First Effective Date to Graduate: Winter 2021

WHEREAS, student enrollments in computer science have been growing nation-wide over the past decade, with Bachelor of Science in Computer Science undergraduate enrollments tripling during this period; and

WHEREAS, data science is emerging as a field that is revolutionizing science and industries alike; and

WHEREAS, the use of big data in increasingly significant ways in virtually all business sectors is placing a premium on future employees who have studied the techniques necessary to combine and sift through data sources, plan algorithms to identify patterns or trends in noisy data, and develop robust computing solutions to modern analytics problems; and

WHEREAS, students who combine the strengths of a deep understanding of computer science with specialized study in data science, data analytics, data management, and data privacy are uniquely positioned to take advantage of growing employment opportunities in this area; and

WHEREAS, a Data-Centric Computing major will provide an opportunity for students to develop both the comprehensive background in computer science necessary to design and develop complex software systems and an understanding of the statistical techniques for data summarization and pattern identification commonly employed in data-driven decision making across disciplines.

THEREFORE BE IT RESOLVED that the major in Data-Centric Computing be approved for addition to the Bachelor of Science in Computer Science effective Spring 2020 and the proposal forwarded to the President for Approval.