I. Request for Approval of New Academic Programs

- **College of Science and Engineering (Twin Cities campus)—Create B.S. degree in Data Sciences**

The College of Science and Engineering on the Twin Cities campus requests approval to create a Bachelor of Science (B.S.) degree in Data Science, effective Fall 2020. The Data Science program is designed for students who want to learn the fundamentals of statistical and algorithmic tools while also gaining experience with methods appropriate for managing and processing big data. The degree differs from the existing degrees because it combines substantial components in statistics, computing systems, and a number of data-driven applications and will prepare students for work in various industrial, governmental, and business positions. The proposed program makes use of existing courses and resources.

- **College of Liberal Arts (Twin Cities campus)—Create a Certificate in Editing and Publishing**

The College of Liberal Arts on the Twin Cities campus requests approval to create a certificate in Editing and Publishing, effective spring 2020. The certificate provides students with the skills, knowledge, and experience necessary to enter the field of publishing and focuses particularly, but not exclusively, on literary publishing. Students take courses designed to introduce them to the process, protocol, and philosophy of editing, as well as the fundamentals of many other aspects of the publishing industry (project management, design and printing, publicity and marketing, sales and distribution, fundraising, copyright, and bookselling and book reviewing). The additional experiential learning requirement offers an immersive experience in one or more aspects of editing and publishing, intended to prepare them for employment in the publishing industry as well as a wide range of related fields. The proposed certificate program makes use of existing courses and resources.

- **College of Science and Engineering (Twin Cities campus) —Create an M.S. degree and graduate minor in Robotics**

The College of Science and Engineering requests approval to create a Master of Science (M.S.) degree and graduate minor in Robotics, effective fall 2020. The program provides a strong foundation in Robotics by offering expertise and educational assets in a single program that will focus on the areas of robot modeling and control, camera and perception sensors, and cognition to reason, plan, and make decisions. Students will
learn state-of-the-art methods for developing and using robots, be exposed to cutting-
edge technologies and theory forming the basis for the next generation of robots and
their applications in areas such as agriculture, underwater exploration, autonomous
driving, and manufacturing applications. Minnesota is at the frontier with global players
such as 3M, Medtronic, Mayo, Honeywell, and Cargill looking for human talent that this
program would provide. The proposed program makes use of existing courses and
resources.

- **Carlson School of Management (Twin Cities campus)—Create a Master of Applied
  Business Analytics degree**

The Carlson School of Management on the Twin Cities campus requests approval to
create a Master of Applied Business Analytics degree, effective fall 2020. This program
combines technical learning in machine learning, artificial intelligence, applied
statistics, optimization, econometrics, experimentation, data visualization, data
engineering and big data with an understanding of how they may be applied in domains
such as marketing, consumer behavior, operations, financial and risk management,
information management, and strategic management in the public and private sectors.
Program graduates will have quantitative capabilities and the technical expertise to
extract useful insights from data and provide data-driven solutions to business
problems in a variety of career settings. The proposed program makes use of existing
courses and resources.

II. Request for Changes to Academic Programs

- **College of Liberal Arts (Twin Cities campus)—Deliver the Scientific and Technical
  Communication minor online.**

The College of Liberal Arts on the Twin Cities campus requests approval to deliver the
Scientific and Technical Communication Minor online, effective spring 2020. The college
plans for and allocates resources for online delivery options. Online delivery allows the
college to provide broader alternatives to current and prospective students.

- **College of Liberal Arts (Twin Cities campus) —Change name of B.A. degree and
  undergraduate minor in Asian Languages and Literature to Asian and Middle
  Eastern Studies, and change the joint Hindi/Urdu subplan into two separate
  subplans.**

The College of Liberal Arts on the Twin Cities campus requests approval to change the
name of the Bachelor of Arts (B.A.) degree and undergraduate minor from Asian
Languages and Literature to Asian and Middle Eastern Studies to align with the
departmental name change that was approved by the Board of Regents in May 2019.
Additionally, the college requests to change the joint Hindi and Urdu subplans into two
separate subplans, one named Hindi and the other named Urdu. Changes will be
effective spring 2020.
III. Request for Approval of Discontinued Academic Programs

- **College of Liberal Arts (Twin Cities campus)—Discontinue the Public Art minor**

  The College of Liberal Arts on the Twin Cities campus requests approval to discontinue the Public Art Minor effective Spring 2020. There are no students pursuing this minor and it is no longer being offered.

- **College of Liberal Arts (Twin Cities campus)—Discontinue Music Education subplan in the Music M.A. degree.**

  The College of Liberal Arts on the Twin Cities campus requests approval to discontinue the Music Education subplan in the Music Masters of Arts degree effective Spring of 2020. This subplan has been replaced by a post-baccalaureate certificate. There are currently no students registered in this subplan.

- **College of Liberal Arts (Twin Cities campus)—Discontinue French Studies post-baccalaureate certificate**

  The College of Liberal Arts on the Twin Cities campus requests approval to discontinue the post-baccalaureate credit certificate in French Studies effective spring 2020. There are no students enrolled in the certificate program at this time.

- **College of Liberal Arts (Twin Cities campus)—Discontinue School Psychology subplan in the Psychology Ph.D.**

  The College of Liberal Arts on the Twin Cities campus requests approval to discontinue the School Psychology subplan in the Psychology Ph.D., effective fall 2019. There are currently no students enrolled in this subplan and it has not been active for several years.