At the February 7, 2019 meeting of the Curriculum and Standards Committee, the following matters were considered and are now presented to the Faculty Senate.

SECTION I
Informational Matters

TOPIC FOR:
GCH 101G: Interdisciplinary Topics in Civic Knowledge and Responsibilities

Topic: Envisioning the Future  
(C1, A1-p, GC)
This course will introduce students to some of the more important technologies that will be involved in the staggering changes we are likely to see over the next 20 to 30 years and the ethical issues raised by these changes. (Lec. 3) (C1) (GC)

Topic Proposed by: Peter Cornillon, Graduate School of Oceanography

NEW TEMPORARY COURSES:

COLLEGE OF BUSINESS:

BUS 454X, Working with Messy Data
(3 crs.) Fundamental concepts, tools, and techniques involved in understanding, harvesting, cleaning, and organizing unstructured or "messy" digital data in preparation for subsequent use in business data analytics and data visualization activities. (Lec. 3) Pre: Enrollment in the College of Business and BUS 310 or permission of instructor.

COURSES CHANGES:

COLLEGE OF BUSINESS:

BUS 467, Customer Analytics  
Add online version to f-2-f
(3 crs.) Frameworks and quantitative approaches for implementing strategic customer relationship management, customer-based marketing metrics, essential database marketing tools, supplier/customer selection and targeting. (Lec. 3/Online) Pre: BUS 365 or 365H. Not for M.B.A. graduate credit.
COLLEGE OF NURSING:

NUR 363, Contemporary Issues  (Delete course)
(3 crs.) Discuss and analyze contemporary issues in nursing and their impacts on individual and population health, the nursing profession and health care systems. (Lec. 3) Pre: NUR 253, 313, 314, 333, 334.

SECTION II
Curricular Matters Which Require Confirmation by the Faculty Senate

COURSES CHANGES:

COLLEGE OF ARTS & SCIENCES:

DSP 393G, Introduction to Predictive Analytics  (Change prerequisite)
(3 crs.) The course implements an active learning pedagogy for students to meticulously and systematically work with "Big Data" to develop data-driven predictive models for decision-making. (Lec. 3) Pre: BUS 111 or MTH 180 or MTH 131 or MTH 141, and STA 308 or STA 409 or BUS 210, or permission of instructor. (B3) (D1) (GC)

COLLEGE OF NURSING:

NUR 313, Acute Care of Adults and Older Adults  (Change title, credits [4 to 3], prereqs, descript, content)
(3 crs.) Nursing management of adults and older adults with acute illness, emphasizing nursing strategies based on a collaborative care model. (Lec. 3) Pre: NUR 233, NUR 234, NUR 243, and NUR 208; concurrent with NUR 314; and credit or concurrent enrollment in NUR 253.

NUR 413, Complex Care of Adults and Older Adults  (Change title, credits [4 to 3], prereqs, descript, content)
(3 crs.) Nursing management of clients with complex and critical illnesses, with a focus on the client and family responses to illness, empowering self-care management and maximizing quality of life. (Lec. 3) Pre: NUR 443, NUR 444, & NUR 412. Credit or concurrent enrollment in NUR 415 and NUR 417. Not for graduate credit.

NUR 415, Transitions to Professional Nursing Practice  (Change credits [2 to 3], descript, prereq)
(3 crs.) Examine issues and apply theories and concepts related to transitional entry into professional nursing practice. Focus on leadership, QSEN competencies, NCLEX success, and successfully navigating the first year of practice. (Lec. 3) Pre: NUR 443, 444, NUR 412 and concurrent enrollment in NUR 417 and NUR 413. Not for graduate credit.

NUR 234, Practicum: Care of Adults and Older Adults  (Change title, descript, prereq)
(3 crs.) Practicum emphasizing foundational nursing practice focusing on the adult and older adult with acute and chronic illnesses. (Lab 3) Pre: Credit in NUR 203, NUR 213, CMB 201, NFS 207 and concurrent enrollment in NUR 233, credit or concurrent enrollment in NUR 243 and NUR 208 and STA 220.
NUR 314, Practicum: Clients with Acute and Chronic Illnesses  (Change title, descript, prereq)
(3 crs.) Application of nursing strategies in the management of clients with acute and chronic illness, including the impact on their families. (Lab. 3) Pre: Credit in NUR 233, NUR 234, NUR 243, NUR 208 and STA 220 and concurrent enrollment in NUR 313 and credit or concurrent enrollment in NUR 253.

NUR 233, Introduction to Care of Adults and Older Adults        (Change title, descript, prereq, content)
(3 crs.) Introduction to foundational nursing practice involving adults and older adults. Focus on prevention, collaborative care and nursing management of clients’ responses to common disorders and health issues in these populations. (Lec. 3) Pre: NUR 203, NUR 213, CMB 201, NFS 207 and concurrent enrollment in NUR 234, credit or concurrent enrollment in NUR 243, STA 220, and NUR 208.

NUR 203, Comprehensive Health Assessment       (Change prerequisite)
(3 crs.) Introduces the techniques of history taking and systematic health assessment of individuals across the life span. Recognition of normal findings is emphasized. (Lec. 2, Lab. 1) Pre: Credit in BIO 222, BIO 223, CHM 124, NUR 100, WRT 104 or 106, and concurrent enrollment in NUR 213 and credit or concurrent enrollment in CMB 201 and NFS 207 and permission of instructor.

NUR 213, Pathophysiology       (Change prerequisite)
(3 crs.) Examination of basic concepts of pathophysiology and the related levels of prevention, etiology, pathogenesis, and clinical manifestations underlying alterations according to biological processes across the life span. (Lec. 3) Pre: Credit in BIO 222, BIO 223, CHM 124, NUR 100, WRT 104 or 106 and concurrent enrollment in NUR 203 and credit or concurrent enrollment in CMB 201 and NFS 207 and permission of instructor.

NUR 243, Pharmacotheapeutics for Nursing      (Change prerequisite)
(3 crs.) Examination of pharmacotherapeutic concepts and agents used by nurses to treat selected illness and in the promotion, maintenance and restoration of wellness to facilitate safe nursing care across the lifespan. (Lec. 3) Pre: Credit in NUR 203, NUR 213, CMB 201, NFS 207.

NUR 253, Nursing Research      (Change prerequisite)
(3 crs.) Introduces the principles of scientific inquiry; including identification of various ways of analytical thinking common to problem solving and critical thinking in nursing. (Lec. 3/Online) Pre: Credit in NUR 233, NUR 234, NUR 243, NUR (208) and STA 220 or RN student subplan.

NUR 333, Psychiatric Mental Health Nursing      (Change prerequisite)
(3 crs.) Nursing strategies to support and care for persons with limitations in psychosocial functioning in the context of family and community; psychiatric and/or mental health. (Lec. 3) Pre: Credit in NUR 253, NUR 313, NUR 314 and Concurrent enrollment in NUR 334, NUR 353, NUR 354.

NUR 334, Practicum In Psychiatric Mental Health Nursing       (Change prerequisite)
(3 crs.) Application of the nursing process and the use of self as the therapeutic agent with individuals and groups of clients. Emphasis on developing nursing strategies for psychiatric and/or mental health care. (Practicum) Pre: Credit in NUR 253, NUR 313, NUR 314 and Concurrent enrollment in NUR 333, NUR 353, NUR 354.
NUR 353, Family Health Nursing  
(Change prerequisite)
(4 crs.) Examines the theories and strategies of family health nursing to promote or restore health and prevent or treat illnesses with an emphasis on pediatric and reproductive care. (Lec. 4) Pre: Credit in NUR 253, NUR 313, NUR 314 and concurrent enrollment in NUR 333, NUR 334, NUR 354.

NUR 354, Practicum: Family Health Nursing  
(Change prerequisite)
(3 crs.) Application of family health nursing strategies used to promote and restore health and prevent and treat illness in children, pregnant women, and their families. (Lab. 9) Pre: Credit in NUR 253, NUR 313, NUR 314 and concurrent enrollment in NUR 333, NUR 334, NUR 354.

NUR 417, Clinical Immersion  
(Change prerequisite)
(6 crs.) Designed to provide students with the opportunity to comprehensively apply and integrate synthesized theoretical and clinical experiences from previous nursing courses into the final comprehension clinical experience. (Lab. 18) Pre: Credit in NUR 412, NUR 443, NUR 444 and concurrent enrollment in NUR 413 and NUR 415. Not for graduate credit.

NUR 443, Community/Public Health Nursing  
(Change prerequisite)
(3 crs.) Analysis of concepts related to public health and the nursing care of clients in the home and the community with emphasis on vulnerable and high-risk populations. (Lec. 3) Pre: Credit in NUR 333, NUR 334, NUR 353, NUR 354 and concurrent enrollment in NUR 412 and NUR 444. Not for graduate credit.

NUR 444, Community/Public Health Nursing Practicum  
(Change prerequisite)
(3 crs.) Application of the nursing process in community with emphasis on vulnerable and high risk populations. In-depth analysis of a selected population, including utilization of epidemiological and public health principles. (Lab. 9) Pre: Credit in NUR 333, NUR 334, NUR 353, NUR 354 and concurrent enrollment in NUR 412 and NUR 444. Not for graduate credit.

NEW COURSES:

COLLEGE OF BUSINESS:

BUS 113, Business Computing and Quantitative Analysis  
(3 crs.) Applications, concepts, and skills relevant to technology and quantitative processes in business. Topics include financial analysis, business modeling, and spreadsheets that promote effective decision making. MS Excel certification exam preparation. (Lec. 3) Pre: Open to students with a BU code or permission of the instructor.

COLLEGE OF NURSING:

NUR 208, Growth, Dev, and Health Promo Across the Lifespan  
(Lec. 3) Comprehensive understanding of human growth and development throughout the lifespan with an emphasis on health promotion for clients living with/without disabilities and chronic illness. (Lec. 3) Pre: Prerequisites are NUR 203, NUR 213, CMB 201, NFS 207.

NUR 412, Health Care Economics, Policy and Ethics  
(3 crs.) Exploration of health care economics, health policy and ethical considerations that impact the care environment, inclusive of contemporary care delivery trends, innovations, and challenges. (Lec. 3) Pre: NUR 353, NUR 354, NUR 333, NUR 334, and concurrent enrollment in NUR 443 and NUR 444. Not for graduate credit.
COLLEGE OF PHARMACY:

BPS 319, Biopharmaceutics and Physical Pharmacy
(3 crs.) The course will provide an introduction to pharmaceutical calculations, and fundamental principles of pharmacy including dissolution, absorption and other biopharmaceutical processes. (Lec. 3) Pre: This course is open to Doctor of Pharmacy (Pharm.D.) students. Students of other majors with permission of the instructor.

NEW COURSES SEEKING GENERAL EDUCATION

COLLEGE OF ARTS & SCIENCES:

HIS 353G, The Cold War: History and Current Implications (B1, C1, GC)
(3 crs.) Soviet-American competition 1945–1991, with emphasis on current implications. Main themes: roots of the cold war, diplomacy, nuclear weapons, civic engagement, cultural impact, and the Cold War end game. (Lec. 2, Rec. 1) Pre: Sophomore standing or instructor permission. (B1) (C1) (GC)

PROGRAM CHANGES:

COLLEGE OF ARTS & SCIENCES:

Department of Computer Science and Statistics:
Data Science major in the BS and BA degrees, Minor in Data Science:
● The BA DSP students should be permitted to choose among MTH 180, MTH 131, and MTH 141 as their Mathematics requirement and prerequisite to linear algebra. This adds MTH 180 to the list of options.
● The BA and BS DSP students should be permitted to take CSC 399 or CSC 499 or STA/DSP 490 as their internship or practical experience. This adds CSC 399 to the list.
● Change the writing requirement options as follows: Drop HPR 112 and replace it with HPR 142. We have consulted with the honors program; HPR 112 is likely to be retired, and honors students are currently advised into HPR 142. In addition, add WRT 227 as another choice for fulfilling the writing requirement. This would permit students who are double majoring in both Business and Data Science to take only one writing class. The new writing requirement would now be: WRT 201 or WRT 227 or HPR 142.
● Add BIO 181 G to the ethics requirement. This class is very similar to the current requirement, CSC 320 and covers topics of high importance to data scientists. The ethics requirement would be: CSC 320 (4 credits) or BIO 181 G (3 credits)
● Remove BIO 439 as an upper level option in the BA and BS majors.

Department of Music:
Bachelor of Music degrees:
The changes proposed revise piano proficiency requirements for all BOM degrees. No changes in credits will occur as a result of the revision of the policy. The changes will streamline the requirement and make it more equitable for all students across programs. No changes in course descriptions or prerequisites are necessary.
COLLEGE OF ENVIRONMENT AND LIFE SCIENCES:

Department of Cell and Molecular Biology:
Create a new BS degree and major in Biotechnology:
The Department of Cell and Molecular Biology confers BS degrees in two majors, Cell and Molecular Biology (CMB) and Medical Laboratory Science (MLS). Each program currently offers independent biotechnology tracks/concentrations for students to follow. The new Biotechnology major will merge these two tracks into a single, stronger, more visible and more efficiently administered undergraduate program leading to a BS degree. Course requirements will be consolidated and modified from the two existing biotechnology tracks/concentrations. Courses common to both existing tracks (100 credits in common) will provide the core course offerings within the new major. Two new courses, an introductory biotechnology course and a second course on drug discovery and development in industry, will be developed to support the new major. The Biotechnology degree will provide preparation and training in research and development, biotechnology operations, quality assurance and regulatory affairs for this economically important industry.

COLLEGE OF HEALTH STUDIES:

Create a department of Health Studies:
We propose that the Program of Health Studies be given departmental status. Since its inception in 2011, Kinesiology has served as the “administrative home” of Health Studies. Although Kinesiology is the administrative home, Health Studies students earn a B.S. degree in Health Studies. While this organizational approach was necessary to launch a new major that began with one assistant professor and 20 students, Health Studies has grown to 5 full-time faculty and 435 active students enrolled in Fall 2018. Health Studies will also be home to the new graduate program in Public Health that is currently in the planning phase.