

PRESIDENT'S REPORT ON ACTIONS OF THE SENATES

Establish the Concentration in Entrepreneurship and Innovation, The Grainger College of Engineering and the Graduate College, Urbana

The Urbana-Champaign Senate has approved a proposal from The Grainger College of Engineering and the Graduate College to establish the concentration in Entrepreneurship and Innovation. This concentration is designed to provide students in engineering graduate programs skills and resources to help them become successful innovators, entrepreneurs, and leaders in industry positions. The Entrepreneurship and Innovation Concentration will be open to current graduate students pursuing the Master of Engineering in Bioengineering, Master of Engineering in Electrical and Computer Engineering, Master of Engineering in Mechanical Science and Engineering, and Master of Engineering in Engineering. Graduates in these degree programs who successfully complete the concentration will build a solid foundation of business practices and gain an entrepreneurial mindset that can be applied to industry-relevant problems in their major field of study.

Establish the Concentration in Aerospace Systems Engineering, The Grainger College of Engineering, and the Graduate College, Urbana

The Urbana-Champaign Senate has approved a proposal from The Grainger College of Engineering and the Graduate College to establish the concentration in Aerospace Systems Engineering within the Master of Engineering in Engineering degree program. Complex aerospace systems are commonly integrated with a variety of other

data-based information systems, making understanding the resulting “system-of-systems” necessary to adequately tailor and engineer products for a particular use. There is growing demand for experts that are able to take the system-of-systems approach to aerospace systems design. This concentration is designed for students in non-research, industry positions in the field of aerospace systems engineering. Students will be introduced to structures and materials used in the aerospace vehicle development process, and they will gain knowledge of optimization, aerodynamics, flight mechanics, orbital mechanics, control, propulsion, industrial design, human-computer interaction, data analytics, and network science. The proposed concentration will provide graduates with a competitive advantage in employment by offering a breadth of knowledge in a number of system disciplines in conjunction with interdisciplinary competence.

Establish the Concentration in Pharmaceutical Engineering, The Grainger College of Engineering and the Graduate College, Urbana

The Urbana-Champaign Senate has approved a proposal from The Grainger College of Engineering and the Graduate College to establish the concentration in Pharmaceutical Engineering within the Master of Engineering in Bioengineering. This professionally-oriented concentration will provide students with integrated technical knowledge in pharmaceutical science, relevant regulations, and process engineering. There is an urgent need to train professionals who possess a combination of knowledge and skills around the application of engineering and business principles to the manufacturing and large-scale production of therapeutics following advanced protocols. The proposed concentration in Pharmaceutical Engineering aims to fill this gap through

emphasis on a professionally-oriented program that combines technical core coursework with business courses and practical training.

Establish the Concentration in Plasma Engineering, The Grainger College of Engineering and the Graduate College, Urbana

The Urbana-Champaign Senate has approved a proposal from The Grainger College of Engineering and the Graduate College to establish the concentration in Plasma Engineering within the Master of Engineering in Engineering degree program. This professionally-oriented concentration will provide students solid foundational knowledge in three major sub-areas: Plasma processing, plasma systems, and fusion technology. Interdisciplinary competency through enrollment in supporting, complementary disciplines that intersect plasma engineering, including materials science, semiconductor processing, chemical catalysis, plasma medicine, and energy systems will also be built into the coursework in the concentration. The University of Illinois at Urbana-Champaign is uniquely positioned to respond to the demand for plasma engineers, as there is no institution in the world with the curricular depth and breadth of its plasma engineering program. The proposed concentration will leverage the university's academic and research leadership to prepare graduates to fill technical development and management roles in plasma-based industries.

Establish the Joint Doctor of Medicine and Doctor of Philosophy, Carle Illinois College of Medicine and the Graduate College, Urbana

The Urbana-Champaign Senate has approved a proposal from the Carle Illinois College of Medicine and the Graduate College to establish the joint Doctor of

Medicine and Doctor of Philosophy (M.D./Ph.D.) Medical Scholars Program (MSP). MSP students will earn an M.D. from the Carle Illinois College of Medicine and a Ph.D. from one of the existing Ph.D. programs at the University of Illinois at Urbana-Champaign. The Carle Illinois College of Medicine selects highly motivated students who have met rigorous prerequisites that will allow them to be successful in the MSP. The MSP will allow M.D. students who wish to focus more deeply in research the opportunity to pursue graduate study in any discipline offered at the university, including biomedical sciences, engineering, the physical sciences, humanities, and the social sciences. MSP students will begin in the medical curriculum, completing the first phase of the case-driven, problem-based coursework. Upon completion of the USMLE Step 1 exam, they will join a graduate program and complete the Ph.D. before returning to complete the third and fourth years of medical school, a model consistent with the majority of M.D./Ph.D. programs in the country. The program will have various activities to keep students in their Ph.D. years engaged in medicine and other programming to integrate the two curricula.

Establish the Concentration in Bilingual-Bicultural Education, College of Education and the Graduate College, Urbana

The Urbana-Champaign Senate has approved a proposal from the College of Education and the Graduate College to establish the concentration in Bilingual-Bicultural Education. This concentration will be available for students pursuing the Ed.M. with teacher licensure (Early Childhood Education, Elementary Education, Secondary Education), M.A., M.S., CAS, and Ed.D. in Curriculum and Instruction; the

Ed.M., M.A., and Ed.D. in Educational Policy, Organization and Leadership; the Ed.M., M.S., and M.A. in Educational Psychology, and the Ed.M. and M.S. in Special Education. Courses in the areas of foundations, linguistics for teachers, methods and materials, classroom culture, and assessment will prepare teachers to work with growing numbers of children and youth who are bilingual or learning English as a second language. The courses for the concentration are equivalent to those required for the state-issued Bilingual/ESL endorsement. Thus, graduate students will attract students from around the state of Illinois who are interested in the increasingly important area of serving children who are bilingual or are learning English as a second language.

Establish the Concentration in Digital Learning, College of Education and the Graduate College, Urbana

The Urbana-Champaign Senate has approved a proposal from the College of Education and the Graduate College to establish the concentration in Digital Learning. Many current teachers aspire to more effectively use digital technologies in their teaching, and many technology designers seek to better understand the curricular theories and pedagogies that lead to effective learning technologies. The Digital Learning concentration represents a critical body of knowledge on how to effectively design, use, and assess technologies in educational contexts including, but not limited to, classrooms at the K-12 level. This concentration will be available for students pursuing the Ph.D., Ed.D., M.A., M.S., Ed.M., and Ed.M. with teacher licensure (Early Childhood, Elementary, Secondary Education) in Curriculum and Instruction; the Ph.D., Ed.D., M.A., M.S., and Ed.M. in Educational Policy, Organization and Leadership; the Ph.D.,

Ed.D., M.A., M.S., and Ed.M. in Educational Psychology; and the Ed.M. and M.S. in Special Education. As the University of Illinois at Urbana-Champaign is nationally recognized for research and faculty expertise around pushing the boundaries of what digital technologies can do in education, the concentration is expected to attract diverse students from around the country.

Establish the Undergraduate Minor in Kinesiology, College of Applied Health Sciences, Urbana

The Urbana-Champaign Senate has approved a proposal from the College of Applied Health Sciences to establish the undergraduate minor in Kinesiology. The minor will provide for students interested in future careers in the health sciences foundational knowledge about the broad range of the Kinesiology discipline along with an opportunity to develop an in-depth knowledge in an area of specialization in one of the sub-disciplines in Kinesiology. Many undergraduate students, regardless of their major, have broad interest in sport, exercise, and other physical activities that benefit wellness and health. Additionally, students planning to pursue postgraduate careers or training in health sciences are also likely to be interested in the minor given that Kinesiology is concerned with various aspects of human movement and its implications for physical and psychological health.

Establish the Concentration in Comparative Literature, College of Liberal Arts and Sciences, Urbana

The Urbana-Champaign Senate has approved a proposal from the College of Liberal Arts and Sciences to establish the concentration in Comparative Literature

within the Bachelor of Arts in Liberal Arts and Sciences in Comparative and World Literature. As detailed in a companion action item, the currently named Bachelor of Arts in Liberal Arts and Sciences in Comparative Literature is seeking renaming and revision. The proposed program will be called the Bachelor of Arts in Liberal Arts and Sciences in Comparative and World Literature. Within this degree program, students will be able to choose from two concentrations: Comparative Literature or World Literature. The concentration in World Literature already exists. The concentration in Comparative Literature will emphasize historical depth and requires advanced language proficiency.

Eliminate the Concentration in Metals within the Bachelor of Fine Arts in Crafts, College of Fine and Applied Arts, Urbana

The Urbana-Champaign Senate has approved a proposal from the College of Fine and Applied Arts to eliminate the Bachelor of Fine Arts in Crafts (BFA-Crafts), as detailed in a companion action item. The concentration in Metals that is available to students pursuing the BFA-Crafts also needs to be first phased down, then eliminated. This process will follow the phasedown and elimination of the BFA-Crafts, allowing the small number of currently enrolled students to complete their degree program without admitting any new students, then eliminating the program and the associated concentration. Students interested in this area of study can apply to the Bachelor of Fine Arts in Studio Art.

Establish Five Concentrations in the Doctor of Philosophy in Pharmaceutical Sciences,
College of Pharmacy and the Graduate College, Chicago

The Chicago Senate with the recommendation of the College of Pharmacy and the Graduate College has approved the establishment of five concentrations in the Doctor of Philosophy in Pharmaceutical Sciences.

The Ph.D. in Pharmaceutical Sciences will be established in Fall 2020 as the result of the consolidation, renaming, and revision of three doctoral programs in biopharmaceutical sciences, medicinal chemistry, and pharmacognosy. The Ph.D. requires 96 hours from the baccalaureate, including a required core, research rotations, coursework in a concentration, electives, and a dissertation. Students must complete one of five concentrations in Pharmaceutics and Drug Delivery, Pharmacognosy, Chemistry in Drug Discovery, Molecular Mechanisms and Therapeutics, or Forensics. The concentrations provide students with training opportunities in research areas within pharmaceutical sciences and highlight the interdisciplinary nature of pharmaceutical research and education.

Establish Four Concentrations in the Master of Science in Pharmaceutical Sciences,
College of Pharmacy and the Graduate College, Chicago

The Chicago Senate with the recommendation of the College of Pharmacy and the Graduate College has approved the establishment of four concentrations in the Master of Science in Pharmaceutical Sciences.

The M.S. in Pharmaceutical Sciences will be established in Fall 2020 as the result of the consolidation, renaming, and revision of three master's degrees in

biopharmaceutical sciences, medicinal chemistry, and pharmacognosy. Graduate students in pharmaceutical sciences are only admitted to the Ph.D.; however, the M.S. may be awarded if students do not wish to or are unable to finish their doctoral studies and have met the requirements of the M.S.

The M.S. requires 32 hours from the baccalaureate, including a required core, coursework in a concentration, electives, and a thesis. Students must complete one of four concentrations in Pharmaceutics and Drug Delivery, Pharmacognosy, Chemistry in Drug Discovery, or Molecular Mechanisms and Therapeutics. The concentrations provide students with training opportunities in research areas within pharmaceutical sciences and highlight the interdisciplinary nature of pharmaceutical research and education.

Establish the Joint Doctor of Dental Medicine/Master of Public Health, College of Dentistry and the School of Public Health, Chicago

The Chicago Senate with the recommendation of the College of Dentistry and the School of Public Health has approved the establishment of a joint Doctor of Dental Medicine (DMD)/Master of Public Health (MPH).

The joint degree program prepares dental school graduates to combine their clinical knowledge and skills with public health approaches to address population-based oral health challenges. Students interested in the joint degree program must apply separately to and be admissible to both programs. Joint degree students are admitted simultaneously, and begin their public health coursework one academic year before beginning the DMD. Requirements for the DMD and MPH, Concentration in

Community Health Sciences, 250 hours in total, can be completed over five years. The DMD extramural rotation will be used to fulfill the required MPH applied practice and integrated learning experiences.

Establish the Joint Master of Urban Planning and Policy/Master of Public Health, College of Urban Planning and Public Affairs, the School of Public Health, and the Graduate College, Chicago

The Chicago Senate with the recommendation of the College of Urban Planning and Public Affairs, the School of Public Health, and the Graduate College has approved the establishment of a joint Master of Urban Planning and Policy (MUPP)/Master of Public Health (MPH).

The joint degree program integrates the fields of urban planning and public health, combining the theoretical approaches and competencies of urban planning in understanding and responding to individual and community influences on patterns of health and illness, with the tools and applicability of public health approaches to real world health problems. To be admitted to the joint degree program, students must meet the admissions requirements of both degrees. Students from either degree may apply to the joint degree program before their second year of study.

Students must complete the core courses in urban planning and policy; the core courses in public health; the divisional core in either community health sciences, epidemiology, environmental and occupational health sciences, or health policy and administration; specialization-required courses in urban planning and policy; electives necessary to complete both degrees, which may be shared; an internship, professional

placement or applied practice experience; and a capstone portfolio. Earned separately, the degrees require 60 hours (MUPP) and 42 to 53 hours (MPH, depending on divisional concentration) respectively. The joint degree program allows students to utilize a maximum of 20 hours of shared coursework. A minimum of 82 hours is required to earn both degrees, although hours vary by MPH concentration.

Establish the Joint Master of Science in Finance/Master of Business Administration,
College of Business Administration and the Graduate College, Chicago

The Chicago Senate with the recommendation of the College of Business Administration and the Graduate College has approved the establishment of a joint Master of Science in Finance (MSF)/Master of Business Administration (MBA).

The joint degree program is designed for students seeking to combine a career in general business management with substantial expertise in finance, and allows students to utilize 16 hours of shared coursework across the two degrees. As a result, students can earn both degrees in a total of 70 hours instead of 86 hours, and can finish within 2.5 years.

Students must meet the admissions criteria of both programs, and are admitted separately to each program through separate applications. Students must complete all of the required courses for both degrees (38 hours in total), and 32 hours of electives, comprised of 20 hours in finance and 12 hours that fulfill 1 of 11 concentrations within the MBA other than the Concentration in Finance.

Establish the Concentration in Health Analytics in the Master of Science in Public Health, School of Public Health and the Graduate College, Chicago

The Chicago Senate with the recommendation of the School of Public Health and Graduate College has approved the establishment of the Concentration in Health Analytics in the Master of Science (M.S.) in Public Health.

Currently, M.S. in Public Health students apply into one of five primary concentrations in biostatistics, community health sciences, environmental and occupational health sciences, epidemiology, or health policy and administration. The Concentration in Health Analytics will be the sixth primary concentration within the degree, and will provide formal training in health analytics and skills necessary to apply analytical and computational methods to healthcare data. M.S. students in the Concentration in Health Analytics must complete a minimum of 48 hours, including the M.S. in Public Health core; 32 hours of required courses in statistics, biostatistics, and health analytics; and 10 hours of electives.

Establish the Interdepartmental Graduate Concentration in Black Studies, College of Liberal Arts and Sciences and the Graduate College, Chicago

The Chicago Senate with the recommendation of the College of Liberal Arts and Sciences and the Graduate College has approved the establishment of the Interdepartmental Graduate Concentration in Black Studies.

The 17-hour concentration will initially be available to master's, doctoral, and graduate professional students in sixteen affiliated programs (e.g., communication, history, urban planning and policy). The concentration will enable graduate students in a

range of disciplines and professions to obtain a deeper understanding of scholarship and research methods in the field of Black Studies. It will also provide them with support and guidance in related research, and will facilitate an interdisciplinary community of young scholars engaging with faculty experts.

The concentration is comprised of two required courses in Black Studies (5 hours) and 12 hours of electives, of which no more than 8 hours can be taken in students' home departments.

Establish the Interdepartmental Graduate Concentration in Museum and Exhibition Studies, College of Architecture, Design, and the Arts and the Graduate College, Chicago

The Chicago Senate with the recommendation of the College of Architecture, Design, and the Arts and the Graduate College has approved the establishment of the Interdepartmental Graduate Concentration in Museum and Exhibition Studies.

The concentration will initially be available to graduate students in the following programs: anthropology, art, art history, disability and human development/disability studies, history, Latin American and Latino studies, learning sciences, and science education. Students may use the concentration to gain knowledge, skills, and networks necessary for careers in museums and other cultural institutions. The concentration will require 16 hours of graduate coursework, two courses from a list of Museum and Exhibition Studies (MUSE) courses (e.g., museum collections, writing for exhibitions, public engagement in museums), and two museum and exhibition-related

courses in students' home or other departments chosen in consultation with advising faculty in those disciplines.

Establish a Dual Admission Associate Degree in Nursing/Bachelor of Science in Nursing Pathway Program, College of Nursing, Chicago

The Chicago Senate with the recommendation of the College of Nursing has approved the establishment of a Dual Admission Associate Degree in Nursing (ADN)/Bachelor of Science in Nursing (BSN) Pathway Program.

The College of Nursing, in conjunction with UIC Extended Campus, offers the online RN to BSN Completion Program for registered nurses who wish to earn the Bachelor of Science in Nursing. Students graduating from a state-approved ADN program who hold a current RN license receive 33 hours of proficiency credit toward the BSN. RN to BSN students then complete 30 hours of required coursework and 57 hours of corequisite and General Education courses to complete the BSN (120 hours in total).

The college will establish an additional path to BSN completion, a Dual Admission ADN+BSN Pathway Program, enacted only through contacts with specific, accredited community colleges. Pathway students will complete the entire ADN degree with the contracted community college, and sit for RN licensure as a graduate of that community college's ADN program. The student then remains in the pathway until BSN completion at UIC.

The pathway program will broaden access to regions throughout Illinois (and potentially the country) that have traditionally faced barriers to affordable and

accessible BSN education. Further, it is hoped the program will eliminate the need for proposed legislation which would allow Illinois community colleges to offer the BSN.

To be eligible for admission into the Dual Admission ADN+BSN Pathway Program, students must enroll at specified, accredited community colleges; enroll in pre-nursing or a nursing degree as defined by the contract with the community college; have a cumulative grade point average of 2.50/4.00; and complete a pathway program application. The program graduation requirements are: completion of the entire ADN degree from a specified, accredited community college; an active U.S. registered nurse license; completion of required 57 transferable liberal arts and sciences credits with a grade of C or higher; conferring of 33 hours of UIC nursing proficiency credit; completion of 30 hours in the RN to BSN Completion Program with grades of C or higher; and compliance with UIC and College of Nursing undergraduate graduation requirements.

Rename and Revise the Minor in Business Operations, College of Business Administration, Chicago

The Chicago Senate with the recommendation of the College of Business Administration has approved the renaming and revision of the Minor in Business Operations.

The minor will be renamed the Minor in Supply Chain and Operations Management. This makes the minor's name consistent with other programs in the discipline offered by the college, including the Master of Science in Supply Chain and Operations Management. In addition, the minor will add a required course in supply

chain management. The minor will continue to require 12 hours, but hours of selective courses are reduced from 12 to 9 to accommodate the required course.

Rename the Concentration in Operations and Supply Chain Management in the Bachelor of Science in Information and Decision Sciences, College of Business Administration, Chicago

The Chicago Senate with the recommendation of the College of Business Administration has approved the renaming of the Concentration in Operations and Supply Chain Management in the Bachelor of Science in Information and Decision Sciences.

The concentration will be renamed the Concentration in Supply Chain and Operations Management. This makes the concentration's name consistent with programs in the discipline offered by the college, including the Master of Science in Supply Chain and Operations Management. No revisions to the curriculum are proposed.

Rename the Minor in African American Studies, College of Liberal Arts and Sciences, Chicago

The Chicago Senate with the recommendation of the College of Liberal Arts and Sciences has approved the renaming of the Minor in African American Studies as the Minor in Black Studies.

In 2017, the Department of African American Studies revised the curriculum to more explicitly incorporate non-U.S. histories and perspectives. Both the undergraduate major and minor are organized around four themes that do not privilege a geographic location or national affiliation, but rather emphasize categories of inquiry regarding black subjects: black queer and feminist studies; diasporic and transnational

studies; cultural production and analysis; and race, politics, and institutions. No revisions to the curriculum are proposed at this time. The renaming will be effective Fall 2020, and will mirror the new name of the academic department and undergraduate major which are being concurrently renamed as the Department of Black Studies and B.A. in Liberal Arts and Sciences, Major in Black Studies.

Eliminate the Minor in Human Capital and Labor Markets, College of Liberal Arts and Sciences, Chicago

The Chicago Senate with the recommendation of the College of Liberal Arts and Sciences has approved the elimination of the Minor in Human Capital and Labor Markets.

The minor was created when the Department of Economics was in the College of Business Administration as an effort to increase undergraduate enrollment in economics courses. Students now overwhelmingly choose to pursue the Minor in Economics. The Minor in Human Capital and Labor Markets has a history of low enrollment, typically under three students. Students declaring the minor in Spring 2019 can complete the program, but no students will be enrolled thereafter.

Eliminate the Undergraduate Campus Certificate in the Teaching of Economics, College of Liberal Arts and Sciences, Chicago

The Chicago Senate with the recommendation of the College of Liberal Arts and Sciences has approved the elimination of the Undergraduate Campus Certificate in the Teaching of Economics.

The certificate was intended to serve undergraduates pursuing teaching degrees with an interest in also teaching economics and consumer economics at the secondary level. As course requirements within the teaching degrees have increased, students have fewer hours of electives in which to earn the certificate without exceeding the 120 hours required for graduation. As a result, certificate enrollment has declined, and no students have received the certificate in the last five years.

Establish the Graduate Certificate in Public Utility Management and Regulation,
College of Business and Management, Springfield

The Springfield Senate with the recommendation of the College of Business and Management has approved the establishment of the Graduate Certificate in Public Utility Management and Regulation.

The Graduate Certificate in Public Utility Management and Regulation will provide students with competencies in regulation and rate cases, the formal process used to determine the amount to charge customers for services provided by regulated utilities. Housed in the Department of Accountancy, students enrolled in the certificate program will gain knowledge of public utility management, study the design and decision-making aspects of rate cases, and conduct policy analyses of current regulatory issues.

Because experts in regulation and rate case management are required in all organizations presenting requests to state regulatory commissions for rate adjustments, the certificate is expected to be of interest to current professionals, as well as to students considering careers in regulation. The 12 credit-hour certificate, which will be offered in both face-to-face and online formats, will also provide an opportunity for Master's

students in both Accountancy and Business Administration to develop a specialization in the regulation of public utilities.