

University of Minnesota Board of Regents
Mission Fulfillment Committee
February 9th, 2023
Pubic Review: Academic Program Changes

I. Request for Approval of New Academic Plans

The College of Liberal Arts (Twin Cities Campus)—requests approval to create an undergraduate Minor in Ensemble Music, effective fall 2023. The ensemble-based minor in music will provide hands-on experience with music making in the university musical ensembles. This minor is designed to meet the needs of students who love participating in music and wish to deepen their understanding through additional scholarly study, and it will allow students to explore the diversity of the world’s musics—including popular, classical, and folk musics from Minnesota and around the world. Undergraduate students from any college or department at the University of Minnesota may deepen their knowledge of music through this minor, creating a vibrant and diverse cohort of students learning, studying, and playing music together. The Ensemble Music Minor may not be combined with any Music major and will be delivered in a primarily in-person/classroom modality.

College of Science and Engineering (Twin Cities Campus)—requests approval to create a Post-Baccalaureate Certificate in Technology Leadership, effective fall 2023. The Post-baccalaureate Certificate in Technology Leadership is designed to provide technology industry professionals with critical competencies in personal leadership, organizational development, business and future technologies, and growth of leadership roles in technology organizations. The required curriculum covers these core competencies that have been identified as driving success in a technology leader, and elective credits allow students to tailor the experience to their specific technical profession. Coursework from the Certificate can be applied to Master's degrees in the Technological Leadership Institute upon admission and with program approval. Existing staff and courses foundational to all TLI Master of Science degrees will be leveraged to deliver this program. The program will be delivered in person and partially online.

College of Science and Engineering (Twin Cities Campus)—requests approval to create a graduate Minor in Financial Mathematics, effective fall 2023. The graduate minor exposes students to the interdisciplinary field of quantitative finance. The courses in the program feature a blend of theory and practice, covering topics in mathematics, statistics, data science, machine learning, and modeling and programming in the context of finance and financial risk management. Courses are taught by practitioners and develop skills that are attractive for employment in the broad area of quantitative finance. The financial industry is becoming increasingly quantitative and technical, and the unique combination of technical and mathematical capabilities, knowledge of the finance domain, and practical experience that courses in financial mathematics can provide, is particularly attractive to employers. Financial mathematics courses are not currently offered to students outside of the major program. The minor will open the courses to students in other programs and will be a useful supplement to their graduate major. Existing courses and resources will be used for the minor and it will be delivered in a primarily in-person/classroom format.

Medical School (Twin Cities Campus)—requests approval to create a Mastery in General Surgery Fellowship Program, effective summer 2023. The one-year fellowship program focuses on training the next generation of general surgeons and it will increase readiness for graduates to enter practice and provide opportunities for independence and exposure to a wide variety of cases. The creation of this fellowship is in response to recent trends in surgical education resulting in the challenges in preparedness of graduates. Opportunities for autonomy and independent decision-making in residency have become lessened due to regulatory changes and exposure to general surgeons during residency has become increasingly limited. The program will include three phases: an introductory phase (12 weeks) to assess medical knowledge and patient care skills; a supervised instructional phase (approximately 26 weeks) which will provide progressive independence and assessment of decision-making and judgment and assess competency in a broad array of general surgery areas (e.g. endoscopy, minimal invasive surgery, breast surgery, GI surgery, emergency surgery); and a third phase (3-6 months) that will offer independent clinic and operational experience. The fellowship uses a financially self-supported model through billing for services as a fully credentialed and privileged fellow at the assigned training hospitals. Any additional support or resources needed will be provided through the Department of Surgery.

College of Education and Human Professions (Duluth Campus)—requests approval to create a Bachelor of Applied Science (BASc) in Health and Physical Education, effective fall 2023. The BASc in Health and Physical Education is for students preparing for teacher licensure in health education (5-12) and physical education (K-12). The major aligns to the Professional Educator Licensing and Standards Board (PELSB) standards for Health Education in grades 5-12 and Physical Education in grades K-12 in Minnesota. The program is taught using the Learner-Sensitive Educator Model, supporting preferences of collaboration, reflection, empowerment, social justice, and technology. The degree program develops subject matter expertise of prospective teachers through a sequential set of courses in both health education and physical education. Courses are open only to majors, allowing faculty to focus on the specific needs and learning objectives of the health and physical education majors. A school health educator improves the health literacy and health behaviors of young people through education about health and wellness topics such as exercise, nutrition, personal growth, community health, emotional health, sexual education, and safety. The proposed major at UMD would be the only campus in the University of Minnesota system offering this dual licensure, makes use of existing courses and resources, and will be delivered in an in-person/classroom format.

Labovitz School of Business and Economics (Duluth Campus)—requests approval to create a Bachelor of Business Administration (BBA) in Risk Management and Insurance (RMI), effective fall 2023. The BBA-RMI major is designed to prepare students for industry careers that are in high demand, and it is among the first of its kind at the undergraduate level in which the degree program is designed in collaboration with industry professionals in the insurance industry. There is currently a high level of demand in the US market for graduates who have insurance background and risk management skills. The program offers students a blend of core finance and risk management principles with specialized knowledge of the insurance industry. Students will demonstrate competency in the core areas of insurance operations and business; communicate ideas effectively in written and oral forms; acquire quantitative analysis skills that can be used in managerial decision-making; learn to work effectively as part of a team; and demonstrate appreciation of ethical and global issues in managerial decision-making.

These outcomes will be assessed through exams, in-class research presentations, in-depth case analysis, and other assessment methods. The program will make use of existing courses and resources and will be delivered in majority in-person/classroom modality.

Swenson College of Science and Engineering (Duluth Campus)—requests approval to create an undergraduate Certificate in Project Management, effective fall 2023. The Certificate is intended to train students who are specifically in engineering programs (Chemical, Civil, Electrical, Industrial, Mechanical, and Physics) and will provide the fundamentals of managing the complexity of modern projects. Students will attain the skills to participate in and lead various aspects of construction- or operations-related projects, from initial development and budgeting to progress reporting and project closure. Along with project management tools, they will learn the elements of working in and leading teams and organizations. The program will make use of existing courses and resources and will be delivered in majority in-person/classroom modality.

Medical School (Duluth Campus)—requests approval to create a Master of Science degree in Biomedical Sciences, effective fall 2023. The Biomedical Sciences MS (BSMS) degree is designed for students interested in professional health careers or biomedical research who desire additional training, mentoring, and advising to strengthen their academic and professional credentials for admission to health professional or graduate schools, or for entry in the biomedical workforce. The mission of the program is to recruit and train diverse graduates that will enrich the region with their newly gained expertise. Recruitment efforts will focus on students from pre-med, STEM, and behavioral sciences disciplines who are: 1) Indigenous, 2) rural low income, or 3) other BIPOC/underrepresented in medicine (URM). The program is designed with two tracks, Medical or Research, and curricula are tailored for each track around the science of human physiology and disease. This content will appeal to students interested in health professions, academic careers in biomedical research, biotechnology/pharmaceutical industry, teaching health sciences, or broader science applications in business, regulatory affairs, entrepreneurship, writing, or policy. The curriculum will be delivered by experienced faculty who teach the foundational content of the Duluth Regional Medical School (DMED) with a primarily in-person delivery modality. Existing resources in the University of Minnesota Medical School and Duluth Graduate School have been leveraged to support the program.

II. Request for Approval of Changed Academic Plans

The College of Veterinary Medicine (Twin Cities Campus)—requests approval to change the name of the Master of Science (MS) and Doctor of Philosophy (PhD). from Veterinary Medicine to Veterinary Sciences, effective fall 2024. The current name, Veterinary Medicine, is frequently confused with the professional Doctor of Veterinary Medicine (DVM) program, also offered at the College. We are seeking to clarify and differentiate our graduate programs (MS and PhD) from the professional program (DVM).

College of Education and Human Professions (Duluth Campus)—requests approval to discontinue the Community Health Education/Promotion subplan in the Public Health Bachelor of Applied Sciences (BASc) degree, effective fall 2023. The subplan is being discontinued due to the new accrediting body for the Public Health program (Council on Education for Public Health) requirement that

the concentration be removed from the Public Health major. The subplan has been restructured as the proposed Health and Physical Education BASc standalone major and it is anticipated to attract a wider pool of students.

III. Request for Approval of Discontinued Academic Plans

College of Education and Human Professions (Duluth Campus)—requests approval to discontinue the Early Childhood Studies Bachelor of Applied Sciences degree, effective summer 2023. Due to low retention levels and overall expenses, this program was planned in FY20 to be discontinued. No new admissions have occurred since fall 2020. As students progressed, courses have been discontinued and resources reallocated. Three students are anticipated to remain past the current academic year and courses will be provided to support students reaching completion by August 2025.

College of Education and Human Professions (Duluth Campus)—requests approval to discontinue the Unified Early Childhood Studies Bachelor of Applied Sciences degree, effective summer 2023. Due to low retention levels and overall expenses, this program was planned in FY20 to be discontinued. No new admissions have occurred since fall 2020. As students progressed, courses have been discontinued and resources reallocated. A completion plan is in place for students still completing the program. Three students are anticipated to remain past the current academic year and courses will be provided to support students reaching completion by August 2025.