University Council

February 27, 2026

UNIVERSITY CURRICULUM COMMITTEE – 2025-2026
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Graduate Student Representative – Yaw Buabeng

Dear Colleagues:

The attached proposal from the College of Pharmacy for a Minor in Biomedical Regulatory Sciences will be an agenda item for the March 6, 2026, Full University Curriculum Committee meeting.

Sincerely,

Susan Sanchez, Chair

cc: Provost Benjamin Ayers
Dr. Marisa Anne Pagnattaro

PROPOSAL FOR MINOR PROGRAM OF STUDY

School/College: College of Pharmacy

Department/Division: Department of Pharmaceutical and Biomedical Sciences (PBS);
International Biomedical Regulatory Sciences (IBRS) Program

Minor Name: Biomedical Regulatory Sciences

CIP: 51200200

Proposed Effective Date: Fall 2026

Which campus(es) will offer this program? Athens

Program Description:

The proposed Minor in Biomedical Regulatory Sciences aims to equip undergraduate students with foundational knowledge of healthcare product regulations and the regulatory skills needed to enhance employability and readiness for graduate or professional careers. The minor will be a joint program between the Department of Pharmaceutical and Biomedical Sciences (PBS) and the International Biomedical Regulatory Sciences (IBRS) Program within the College of Pharmacy. The goal is to bridge science, ethics, policy, public health, business, and engineering by training students to navigate biomedical regulations, accelerate safe product development, meet high industry demand, ensure quality, efficacy, and safety, and protect patients while fostering innovation in a rapidly evolving field.

Despite rising workforce demand for professionals trained in regulatory affairs, quality assurance, and clinical research compliance, undergraduate curricula often offer limited exposure to regulatory science. Students pursuing degrees in pharmaceutical and biomedical sciences, biology, biomedical engineering, business, chemistry, public health, and related disciplines would benefit from training in regulatory frameworks and ethical compliance. The proposed Minor in Biomedical Regulatory Sciences addresses this gap by offering interdisciplinary coursework that complements existing majors and prepares students for careers or graduate study in regulatory and biomedical fields.

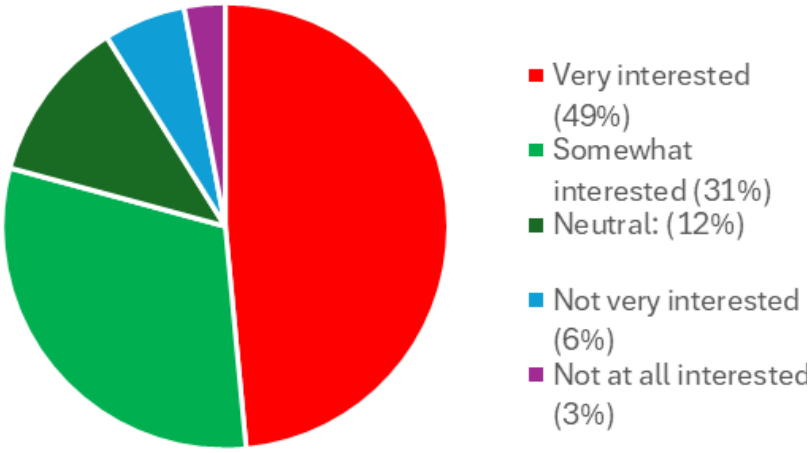
The rapidly expanding biomedical industry requires a parallel increase in regulatory science professionals to ensure compliance with laws, policies, and procedures governing product approval and commercialization. The proposed program provides students with a solid foundation in the basic regulatory sciences, including good manufacturing practices, good clinical practices, good documentation practices, good laboratory practices, FDA regulations, submission requirements, quality practices, post approval regulations, regulatory topics associated with AI, clinical trials, and biomedical product lifecycle. The Minor in Biomedical Regulatory Sciences helps students develop foundational knowledge in interdisciplinary thinking and communication and enhances career opportunities.

The Minor in Biomedical Regulatory Sciences is proposed in response to strong student interest and the College of Pharmacy's established faculty expertise. Currently, the University of Georgia does not offer an undergraduate major or minor in biomedical regulatory sciences. The Department of Pharmaceutical and Biomedical Sciences is a highly interdisciplinary unit with expertise in biomedical and pharmaceutical sciences, drug discovery and development, drug delivery, medicinal chemistry, and molecular pharmacology. The International Biomedical Regulatory Sciences program has established

expertise in biomedical regulatory and clinical sciences, as well as in global healthcare regulations governing the development, manufacturing, effectiveness, and safety of medical products. In addition, the College of Pharmacy has established itself as a leader in bridging research and public health across its programs. The College of Pharmacy offers master's degrees and certificate programs in regulatory sciences within the IBRS program; however, it does not currently offer similar opportunities to undergraduate students. Working with IBRS experts to develop and offer this minor will fill this gap.

In essence, the Minor in Biomedical Regulatory Sciences aims to provide a basic understanding of the science and regulations required to bring life-saving innovations to market and improve healthcare outcomes. Approval of this minor will expand UGA's academic portfolio by strengthening academic offerings, enhancing industry relevance, and improving students' professional readiness.

To gauge student interest in a potential Minor in Biomedical Regulatory Sciences, a Qualtrics survey was administered to all undergraduate students in the Pharmaceutical and Biomedical Sciences (B.S.) major. A total of 111 completed the survey. Of these, 80% indicated they would be somewhat or very interested in a new Minor in Biomedical Regulatory Sciences.



Resources and Faculty

The program will use existing faculty expertise in biomedical, pharmaceutical, and regulatory sciences. Guest lectures from industry professionals and regulatory agencies may be used to provide real-world perspectives.

All administrative and student support resources (including eLC) will be provided by the Department of Pharmaceutical and Biomedical Sciences, the College's Office of Instructional Innovation and Research, or UGA's Center for Teaching and Learning, as appropriate. No administrative or student support resources (including eLC) are anticipated from the IBRS program.

Program of Study/Requirements:

Required Courses (6 hours):

PMCY 4030, GMP, GCP, GLP and Related Regulations (3 hours)

PMCY 4040, Basics of FDA (3 hours)

Elective Courses (9 hours):

A minimum of 6 hours must be upper-division (3000-level or above). Students must choose at least one elective course within the College of Pharmacy.

Recommended Electives - College of Pharmacy:

PHRM(PMCY) 4750, Pharmaceutical and Health Care Marketing (3 hours)

PHRM(PMCY) 5530, Ethics in Health Care (2 hours)

PMCY 2020, Pills, Potions, and Drugs in Modern Medicine (3 hours)

PMCY 3200, Introduction to the Pharmaceutical Sciences (3 hours)

PMCY 3500, Pharmaceutical Analysis (3 hours)

PMCY 4020/6020, Human Physiology (3 hours)

PMCY 4050/6050, Human Anatomy (3 hours)

PMCY 4200/6200, Pharmacokinetics and Pharmacodynamics (3 hours)

PMCY 4300/6300, Medicinal Chemistry (3 hours)

PMCY 4500/6500, Pharmaceutical Drug Development (3 hours)

PMCY 4500L/6500L, Pharmaceutical Drug Development Lab (2 hours)

PMCY 4510/6510, Advanced Topics in Pharmaceutical Manufacturing and Regulatory Submissions (3 hours)

PMCY 4510L/6510L, Quality Control Testing and Pharmaceutical Manufacturing (2 hours)

PMCY 4600/6600, Biological Therapeutics (3 hours)

PMCY 4800/6800, Human Pharmacology (3 hours)

PMCY 4950, Pharmaceutical Sciences Internship (3 hours)

Recommended Electives - Other

BCHE 4360, Biochemical Process Control (3 hours)

BCHE 4520/6520, Design of Biochemical Separations Processes (3 hours)

BCMB 3100, Introductory Biochemistry and Molecular Biology (4 hours)

BIOE 4720/6720, Human Factors and Ergonomics in Biomedical Device Design (3 hours)

BIOE 4740/6740, Biomaterials (3 hours)

BIOS 3000, Intermediate Biostatistics for Public Health Sciences (3 hours)

BUSN 3000, Applied Statistics and Data Analysis for Business (3 hours)

CHEM 2300, Quantitative Analytical Chemistry (3 hours)

CHEM 3100, Introductory Biological Chemistry (4 hours)

ENVM(EHSC) 4250/6250, Environmental and Public Health Law (3 hours)

HPAM 3500, Introduction to Healthcare Management (3 hours)

HPAM 3600, Introduction to Health Policy (3 hours)

MIBO 3500, Introductory Microbiology (3 hours)

PBHL 3100, Introduction to Public Health (3 hours)

PHIL 3220, Biomedical Ethics (3 hours)

RBIO 3310, Therapies for Tissue Repair and Regeneration (3 hours)

STAT 4260/6260, Statistical Quality Assurance (3 hours)

VPHY 4200/6200, Physiologic Basis of Diseases (3 hours)

VPHY 4750/6750, Pathophysiological Basis of Translational Research (3 hours)

Documentation of Approval and Notification

Proposal: Minor in Biomedical Regulatory Sciences

College: College of Pharmacy

Department: Pharmaceutical and Biomedical Sciences

Proposed Effective Term: Fall 2026

School/College:

- Head of the Department of Pharmaceutical and Biomedical Sciences, Dr. Yaguang Xi, 2/27/2026
- College of Pharmacy Associate Dean, Dr. Michael Bartlett, 2/6/2026

Use of Course Notification:

- Head of the Department of Chemistry, Dr. Aaron Aponick, 2/27/2026
- Head of the Department of Biochemistry and Molecular Biology, Dr. Adam Barb, 2/27/2026
- Head of the Department of Physiology and Pharmacology, Dr. Gaylen Edwards, 2/27/2026
- Head of the Department of Animal and Dairy Sciences, Dr. Francis Fluharty, 2/27/2026
- College of Engineering Assistant Dean, Dr. Mable Fok, 2/27/2026
- Head of the Department of Environmental Health Science, Dr. Travis Glenn, 2/27/2026
- Interim Head of the Department of Statistics, Dr. Daniel Hall, 2/27/2026
- Head of the Department of Health Policy and Management, Dr. Mahmud Khan, 2/27/2026
- College of Agricultural and Environmental Sciences Associate Dean, Dr. Dean Kopsell, 2/27/2026
- Franklin College of Arts and Sciences Associate Dean, Dr. Paula Lemons, 2/27/2026
- College of Public Health Associate Dean, Dr. Erin Lipp, 2/27/2026
- Head of the Department of Philosophy, Dr. Aaron Meskin, 2/27/2026
- Head of the Department of Microbiology, Dr. Aaron Mitchell, 2/27/2026
- Head of the Department of Epidemiology and Biostatistics, Dr. Ye Shen, 2/27/2026
- Chair of the School of Chemical, Materials and Biomedical Engineering, Dr. James Warnock, 2/27/2026