

UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 1

Fall 2022

---COURSES---

The courses listed below reflect the undergraduate and professional major curricular changes approved by the Catalog Subcommittee. The course information under the heading titled *Current* will show strikethroughs for deletions, and text under *Proposed* will show underlines for additions. The column to the far right indicates the date each change becomes effective. Note: Items marked {S} have been streamlined and do not require Catalog Subcommittee review.

Subject	Course Number	New Revise	Current	Proposed	Effective Date
HORT	403	New	--N/A--	Special Topics V 1-4 May be repeated for credit; cumulative maximum 12 credits. Specialized topics in horticulture; content will vary. Typically offered Fall and Spring. Cooperative: Open to UI degree-seeking students.	8-22
NEP	431	New	--N/A--	Agriculture, Food, Nutrition and Health Outcomes 3 Course Prerequisite: Junior standing. Integrated overview of challenges and solutions related to human nutrition and health along the farm to fork and soil to societies continuums. Credit not granted for both NEP 431 and NEP 531. Offered at 400 and 500 level. Typically offered Fall.	8-22
PHARMEDS		New	--N/A--	New subject/prefix "PHARMEDS" for Pharmaceutical and Medical Sciences	1-23
PHARMEDS	301	New	--N/A--	Pharmacology: The Science of Drug Action 3 Introduction to drug receptors, cell signaling, and drug classes. Typically offered Fall.	1-23
PHARMEDS	313	New	--N/A--	[M] Careers: Pathways in Biomedicine 3 Introduction to careers in biomedical research, pharmaceutical/biotech industry, government, and human health professions. Typically offered Fall.	1-23
PHARMEDS	315	New	--N/A--	[COMM] Biomedical Literature: Communicating Science 4 Review and discussion of recent biomedical literature emphasizing oral presentations.	8-23
PHARMEDS	320	New	--N/A--	Pharmaceutics: Delivering the Treatment 3 Introduction to drug absorption, distribution, metabolism, and excretion; drug delivery; and vaccines. Typically offered Spring.	1-23

PHARMEDS	322	New	--N/A--	Medicinal Chemistry: Developing New Drugs 3 Introduction to drug disposition, drug metabolism, structure-activity relationships, functional groups, and drug development. Typically offered Spring.	1-23
PHARMEDS	323	New	--N/A--	Ethics: Conduct and Career Development 3 Introduction to biomedical research practices, responsible conduct of research, scientific writing, and biomedical ethics. Typically offered Fall.	1-23
PHARMEDS	330	New	--N/A--	Molecular Methods: Biochemical Techniques 3 Introduction to methodological approaches commonly used in pharmaceutical research and biotechnology. Typically offered Spring.	1-23
PHARMEDS	401	New	--N/A--	Genomics: Frontiers in Human Genetics 3 Introduction to genetics and pharmacogenomics, with examples from human medicine and consideration of ethics. Typically offered Fall.	1-23
PHARMEDS	415	New	--N/A--	Healthcare Systems: Tackling Human Health 3 Introduction to healthcare systems, workforce, financing, policy, and delivery with discussions of current challenges. Typically offered Fall.	1-23
PHARMEDS	421	New	--N/A--	[M] Scientific Communication: Writing and Speaking 3 Introduction to scientific writing and oral communications in the biomedical sciences. Typically offered Fall.	1-23
PHARMEDS	425	New	--N/A--	Medical Microbiology: Bugs and Drugs 3 Introduction to immunology, bacteriology, virology, mycology, parasitology, and drugs used to treat infectious diseases. Typically offered Spring.	1-23
PHARMEDS	444	New	--N/A--	Toxicology: Assessing Drug Side Effects 3 Introduction to toxicology, with an emphasis on the side effects of drugs used to treat human disease. Typically offered Fall.	1-23
PHARMEDS	445	New	--N/A--	Cancer Biology 3 Introduction to contemporary cancer biology covering fundamental hallmarks of cancer biology, from the discovery of oncogenes to cancer initiation, metastasis, and treatment. Typically offered Spring.	1-23

PHARMEDS	499	New	--N/A--	Special Problems V 1-4 May be repeated for credit. Course Prerequisite: By department permission. Independent study conducted under the jurisdiction of an approving faculty member; may include independent research studies in technical or specialized problems; selection and analysis of specified readings; development of a creative project; or field experiences. Typically offered Fall, Spring, and Summer. S, F grading.	8-23
TMP	350	New	--N/A--	Introduction to Medical Biochemistry 3 Introduction to biochemical concepts relevant to human health and diseases. Typically offered Fall.	1-23
TMP	414	New	--N/A--	Human Pathophysiology 3 Introduction to basic concepts and fundamental principles of human pathophysiology at the tissue, organ, and system levels. Typically offered Fall.	1-23
TMP	424	New	--N/A--	Human Clinical Neuropathology 3 Functional anatomy of the human nervous system with an emphasis on disease and pathological states. Typically offered Spring.	1-23