

BMS 401: Honors Introduction to Cancer Research Biomolecular Sciences

This course introduces UM Honors College students to some of the basic techniques used in laboratory research and establishes a fundamental scientific framework for tumor cell biology and cancer-related UM Honors thesis research projects. This course includes discussions of the critical biochemical molecular and/or cellular events underlying the etiology and progression of cancer, anticancer target selection and validation, biochemical and cell-based bioassay methods, screening libraries of compounds and/or extracts, bioassay-guided isolation, and biological characterization/evaluation of active leads. Emphasis is placed on natural product-based anticancer research.

1 Credit Prerequisites

- Bisc 160: Biological Sciences I
- Bisc 161: Biological Sciences I Laboratory
- Limited to students in the Sally McDonnell Barksdale Honors College
- Pre-Requisite: 24 Earned Hours

Instruction Type(s)

• Lecture: Lecture for BMS 401

Subject Areas

Pharmaceutical Sciences

Related Areas

- <u>Clinical and Industrial Drug Development (MS, PhD)</u>
- Industrial and Physical Pharmacy and Cosmetic Sciences (MS, PhD)
- Medicinal and Pharmaceutical Chemistry
- <u>Natural Products Chemistry and Pharmacognosy (MS, PhD)</u>
- <u>Pharmaceutical Marketing and Management</u>
- Pharmaceutics and Drug Design (MS, PhD)
- Pharmacoeconomics/Pharmaceutical Economics (MS, PhD)
- Pharmacy (PharmD USA PharmD, BS/BPharm Canada)
- Pharmacy Administration and Pharmacy Policy and Regulatory Affairs (MS, PhD)
- Pharmacy, Pharmaceutical Sciences, and Administration, Other

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