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

**Instruction Type(s)**
- Lecture: Lecture for BMS 401

**Subject Areas**
- Pharmaceutical Sciences

**Related Areas**
- Industrial and Physical Pharmacy and Cosmetic Sciences (MS, PhD)
- Medicinal and Pharmaceutical Chemistry
- Natural Products Chemistry and Pharmacognosy (MS, PhD)
- Pharmaceutical Marketing and Management
- 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