

# 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

- [Clinical and Industrial Drug Development \(MS, PhD\)](#)
- [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](#)

