

# 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 \$target.descriptions.MinimumGrade\$
- Bisc 161: Biological Sciences I Laboratory \$target.descriptions.MinimumGrade\$
- 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

