Pharmacy and Pharmaceutical Sciences

Academic Programs

PharmD
- Medicinal Chemistry & Natural Products

PhD
- Molecular Pharmaceutics
- Pharmacotherapy & Exp. Therapeutics

MS
- Pharmaceutical Outcomes & Policy
  - Health System Pharmacy
Partial List of Key Partners:

- Depts. Chemistry, Physics, Mathematics, & Computer Science
- Biomanufacturing Research Institute and Technology Enterprise (BRITE)
- School of Medicine
- Lineberger Comprehensive Cancer Center (LCCC)
- UNC Neuroscience Center
- Carolina Cardiovascular Biology Center
- North Carolina Center for Nanoscale Materials (NCCNM)
- Institute for Advanced Materials, Nanoscience and Technology (IAM)
- UNC Institute for Nanomedicine
- Carolina Center of Cancer Nanotechnology Excellence (CCCNE)
- Biomedical Research Imaging Center (BRIC)
- Bryson Center for Human Genetics
- North Carolina Translational and Clinical Sciences (TraCS) Institute (via NIH CTSA)
- Industry
- Research Triangle Park
- Industry

**Chemistry & Biology**
- High-throughout synthesis & screening
- Bioassay development
- Cheminformatics
  - Validated targets
  - Confirmed leads

**Nanotechnology & Engineering**
- Materials discovery; Nanoengineering
- Pharmaceutics; formulations
- Biological stability; Nanotoxicology
  - Stable, lead formulations

**In-Vivo Screening**
- Biological transport; delivery
- Pharmacokinetics; ADME
  - Efficacious pre-clinical lead formulations

**Genomics & Biology**
- Gene expression
- Pharmacogenomics
  - Link molecular genetics to efficacy