BACKGROUND REQUIREMENTS

- Subject backgrounds suitable for graduate study in pharmaceutics are pharmacy, pharmaceutical sciences, life sciences, physical sciences, and engineering.

- Requirements for entry into the PhD program are a BS or MS in an appropriate discipline.
RESEARCH AREAS

Advanced Methods of Analysis

Drug Delivery

Drug Stability

Drug Transport

Manufacturing Science

Materials Science

Modeling

Nanomedicine

Pharmaceutical Biotechnology

Pharmaceutical Engineering

Pharmaceutics

Pharmacokinetics and Metabolism

Solid State Chemistry

SUMMARY OF FACULTY

RESEARCH INTERESTS

PHARMACEUTICAL SOLIDS FORMULATION

www.ipph.purdue.edu/graduateprogram/

Stephen R. Byrn (Charles B. Jordan Professor)
  solid state formulation and stability of small molecules

Tonglei Li (Professor, Allen Chao Chair, Interim Dept. Head)
  intermolecular interaction and crystal packing, nucleation and phase transition, computation and visualization

Lynne S. Taylor (Retter Professor of Pharmacy)
  amorphous solids, role of moisture in pharmaceutical solids, development of analytical methods to characterize solids

Elizabeth M. Topp (Professor)
  solid-state formulation and stability of biologics, control of protein aggregation

PHARMACEUTICAL SOLIDS MANUFACTURING

www.ipph.purdue.edu/graduateprogram/

Stephen R. Byrn (Charles B. Jordan Professor)
  regulatory science, Sustainable Medicines in Africa

Rodolfo Pinal (Associate Professor)
  layer-by-layer assembly of solid dosage forms

Qi “Tony” Zhou (Assistant Professor)
  particle engineering, advanced manufacturing of solid dosage forms

PHARMACEUTICAL SOLIDS DELIVERY & BIOPHARMACEUTICS

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Gregory T. Knipp (Associate Professor)
  oral drug delivery, peptide transporters in the GI tract, porcine model for oral formulations, pediatric drug delivery

Tonglei Li (Professor, Allen Chao Chair, Interim Dept. Head)
  development and delivery of nanocrystal-based therapeutic and bioimaging systems

Sandro Matosevic (Assistant Professor)
  immunotherapy, cell therapy, bio-nanotechnology, cryopreservation, controlled delivery, biopharmaceutical engineering

Kinam Park (Professor, Showalter Distinguished Professor of Biomedical Engineering)
  controlled release, nano/micro particles, polymer micelles, fast dissolving tablets, hydrogels

Yoon Yeo (Associate Professor and Associate Dept. Head)
  particle engineering, nanoparticles, drug delivery in cancer, drug delivery to lung