

# Pharmaceutical Sciences

## FIRST YEAR

### FALL SEMESTER

ENGL 1101 - English Composition I  
 CHEM 1211-1211L - Freshman Chemistry I  
 MATH 2250 - Calculus I  
 FYOS - First-Year Odyssey Seminar  
 Social Science or World Languages and Culture Course

### SPRING SEMESTER

ENGL 1102 - English Composition II  
 CHEM 1212-1212L - Freshman Chemistry II  
 MATH 2260 - Calculus II  
 COMM 1110 (or COMM 1500) - Public Speaking  
 Social Science or World Languages and Culture Course

## SECOND YEAR

### FALL SEMESTER

CHEM 2211-2211L - Organic Chemistry I  
 BIOL 1107-1107L - Principles of Biology I  
 PMCY 2020 - Pills, Potions, and Drugs in Modern Medicine  
 Social Science or World Languages and Culture Course

### SPRING SEMESTER

CHEM 2212-2212L - Organic Chemistry II  
 PHYS 1211-1211L - Principles of Physics I  
 STAT 2000 - Introductory Statistics  
 Social Science or World Languages and Culture Course

## THIRD YEAR

### FALL SEMESTER

BCMB 3100 - Biochemistry and Molecular Biology  
 PMCY 3000 - Human Physiology  
 PMCY 3500 - Pharmaceutical Analysis  
 Social Science or World Languages and Culture Course

### SPRING SEMESTER

PMCY 3200 - Introduction to the Pharmaceutical Sciences  
 PMCY 3300L - Pharmaceutical Techniques  
 PMCY 3800 - Introduction to Pharmacology  
 PMCY 4300 - Medicinal Chemistry  
 Major Elective (see below)

## FOURTH YEAR

### FALL SEMESTER

PMCY 4200 - Pharmacokinetics and Pharmacodynamics  
 PMCY 4500-4500L - Pharmaceutical Drug Development  
 PMCY 4960 - Pharmaceutical Sciences Research I  
 Major Elective (see below)

### SPRING SEMESTER

PMCY 4510-4510L - Advanced Drug Delivery Systems  
 PMCY 4600 - Biological Therapeutics  
 PMCY 4970 - Pharmaceutical Sciences Research II  
 ENGL 3590W - Technical and Professional Communication  
 Major Elective (see below)

### **Major Electives (PMCY courses):**

PMCY 4000 - War on Cancer  
 PMCY 4010E - Introduction to drugs, biologics and devices regulated by FDA  
 PMCY 4410E - Robotic Technology in Drug Discovery and Toxicology  
 PMCY 4750 - Pharmaceutical and Health Care Marketing  
 PMCY 5050 - Abused Drugs  
 PMCY 5530 - Ethics in Health Care  
 PMCY 5540 - Public Health and the Health Professions  
 PMCY 6420E - Computation Approaches in Drug Discovery and Toxicology

### **Major Electives (non-PMCY courses):**

BCMB 3600 - Genomics and Bioinformatics  
 BCMB 4030L - Bioprocess Technology  
 BCMB 4200 - Biotechnology  
 BIOL 1108-1108L - Principles of Biology II  
 BIOS 3000 - Intermediate Biostatistics for Public Health Sciences  
 CBIO 3010 - Gross Anatomy  
 CBIO 3400 - Cell Biology  
 CHEM 4113 - Advanced Organic Chemistry III  
 CHEM 4120 - Chemistry of Drug Design and Drug Action  
 EPID 2010 - Disease Detectives  
 GENE 3200-3200D - Genetics  
 MIBO 3000-3000L - Introductory Applied Microbiology  
 MIBO 3500 - Introductory Microbiology  
 PHYS 1212-1212L - Principles of Physics for Scientists and Engineers II  
 STAT 4210 - Statistical Methods  
 STAT 4220 - Applied Experimental Designs  
 STAT 4230 - Applied Regression Analysis