B.S. Pharmaceutical Sciences

Program Description
The B.S. in Pharmaceutical Sciences is a 4 year undergraduate degree program designed to provide an education in drug development, drug discovery and laboratory-centered research.

Admissions Requirements
Students must first be admitted by the Office of Undergraduate Admissions. Students in the Intended Pharmaceutical Sciences major must complete 60 credit hours of required courses, have a 2.5 cumulative GPA and complete all CHEM, BIOL, PHYS, ENGL and MATH courses with a grade of C or higher before they can be admitted into the major.

Degree Requirements
Students admitted to the Pharmaceutical Sciences major must complete 60 credit hours of major requirements and complete all PMCY courses with a grade of C or higher. Students must also complete all other undergraduate degree requirements as mandated by the University.

Notable Educational Experiences
Students in the Pharmaceutical Sciences program will learn Good Manufacturing Practices in a state-of-the-art laboratory. Students will also complete hands-on research directed by faculty members.

Career Opportunities
Graduates from the Pharmaceutical Sciences program will be well prepared to fill critical roles in the pharmaceutical industry. These roles can be in pharmaceutical production, research laboratories, medical device development, biotechnology and drug development and discovery.

Doctor of Pharmacy (PharmD)

Program Description
The Doctor of Pharmacy is a 4 year professional degree program that requires 69 hours of prerequisite courses (may take 3 years depending upon AP credits). It is designed to provide an education to those individuals who wish to become a pharmacist.

Admissions Requirements
The Doctor of Pharmacy program requires completion of 69 credits of pre-pharmacy coursework at an accredited institution, completion of the PCAT, an admissions application submitted through PharmCAS, and an online application submitted to the College of Pharmacy. Selected applicants are also required to participate in an admissions interview. Applicant pool size determines the competitiveness of admission to the program.

Degree Requirements
Students admitted to the Doctor of Pharmacy program must complete 148 credits of required coursework. Students must also become licensed Pharmacy Interns by the Georgia Board of Pharmacy.

Notable Educational Experiences
Students will work in specially designed spaces that simulate environments and experiences found in pharmacies. In their 4th year, students will have the opportunity to take part in rotations in retail, hospital and community-based pharmacies throughout the State of Georgia.

Career Opportunities
Graduates from the program will be eligible to become pharmacists. Pharmacists play a crucial role in the healthcare industry by dispensing medicines, administering vaccines, providing information to patients, and managing complex medication regimens.

Excellent Gateway for Applying to...
Professional Schools – Medical, Pharmacy, Dental, Veterinary, Physician Assistant
Graduate Studies – MS, PhD Pharmaceutical Sciences, Regulatory and Clinical Programs

CAREER PATH
PHARMACEUTICAL SCIENTIST vs REGISTERED PHARMACIST

Director, BS Program
Dr. Michael Bartlett | (706) 542-5390 | mgbart@uga.edu
BS PHARMACEUTICAL SCIENCES vs. PRE-PHARMACY (PharmD)

College: Pharmacy
Department: Pharmaceutical and Biomedical Sciences
Major: Pharmaceutical Sciences (BS)
Years: 4
Description: Designed to prepare students to work in the pharmaceutical industry, this major consists of core classes in chemistry, biology, math and physics and then progresses to advanced classes in pharmacology, toxicology, drug discovery, development, manufacturing, quality assurance and regulatory compliance.

REQUIRED ENGLISH COURSES
ENGL 1101 English Composition I 1st yr Fall
ENGL 1102 English Composition II 1st yr Spring

REQUIRED COMMUNICATION COURSE
COMM 1100 Public Speaking

REQUIRED MATH COURSES
STAT 2000 or BIOS 2010 Statistics or Biostatistics 1st or 2nd yr
MATH 2250 Calculus I 1st or 2nd yr
MATH 2260 Calculus II 1st or 2nd yr or 3rd yr Fall

REQUIRED CHEMISTRY COURSES
CHEM 1211/1211L Freshman Chemistry I 1st yr Fall
CHEM 1212/1212L Freshman Chemistry II 1st yr Spring
CHEM 2211/2211L Organic Chemistry I 2nd yr Fall
CHEM 2212/2212L Organic Chemistry II 2nd yr Spring

REQUIRED PHYSICS COURSE
PHYS 1211/1211L Physics for Scientists before 4th yr

REQUIRED BIOLOGY COURSE
BIOL 1107/1107L Biology I 1st or 2nd yr

REQUIRED MAJOR COURSES
BCMB 3100 Biochemistry & Molecular Biology 3rd yr Fall
BCMB 3600 Genomics & Bioinformatics 3rd or 4th yr
ENGL 3590W Professional Communication 3rd or 4th yr
PMCY 3000 Human Physiology 3rd yr Fall
PMCY 3200 Intro to the Pharmaceutical Sciences 3rd yr Spring
PMCY 3300L Pharmaceutical Techniques 3rd yr Spring
PMCY 3500 Pharmaceutical Analysis 3rd yr Spring
PMCY 3800 Introduction to Pharmacology 3rd yr Spring
PMCY 4200 Pharmaceutical Sciences II 4th yr Fall
PMCY 4300 Medicinal Chemistry 3rd or 4th yr
PMCY 4500/4500L Drug Development I 4th yr Fall
PMCY 4510/4510L Drug Development II 4th yr Spring
PMCY 4960 Pharmaceutical Sciences Research I 4th yr Fall
PMCY 4970 Pharmaceutical Sciences Research II 4th yr Spring

Three elective courses from: BIOL 1108/1108L, BIOS 3000, CBIO 3400, CHEM 3110, ENGG 4615, GENE 3200, MIBO 3500, PHRM 4000, PHRM 4750, PHRM 5050, PHRM 5530, PHRM 5540, PHYS 1212/L, STAT 4210, STAT 4220, STAT 4230

SYSTEM REQUIREMENTS REMAINING
PEDB
FYOS Seminar
US and GA History  e.g. HIST 2111 or 2112
Federal and Georgia Constitution  e.g. POLS 1101
Cultural Diversity

College: None
Department: None
Major: Any
Years: 69 prerequisite hours (approx. 3 years undergraduate study) + 4 (PharmD study)
Description: The pre-pharmacy curriculum consists of the courses required for admittance into the PharmD program in UGA’s College of Pharmacy. The PharmD degree is the minimum requirement to become a pharmacist.

REQUIRED ENGLISH COURSES
ENGL 1101 English Composition I
ENGL 1102 English Composition II

REQUIRED COMMUNICATION COURSE
COMM 1100 or 1500 Public or Interpersonal Communication

REQUIRED MATH COURSES
MATH 2200 or 2250 Calculus I
STAT 2000 Statistics

REQUIRED CHEMISTRY COURSES
CHEM 1211/1211L Freshman Chemistry I
CHEM 1212/1212L Freshman Chemistry II
CHEM 2211/2211L Organic Chemistry I
CHEM 2212/2212L Organic Chemistry II

REQUIRED PHYSICS COURSE
None

REQUIRED BIOLOGY COURSE
BIOL 1107/1107L Biology I
BIOL 1108/1108L Biology II

OTHER REQUIREMENTS
BCMB 3100 or 4010 Biochemistry & Molecular Biology
MIBO 2500 or 3000 or 3500 Microbiology
CBIO* 3000 Anatomy
VPHY* 3100 or PMCY* 3000 or CBIO* 3710 Physiology
ECON 2105 or 2106 Macroeconomics or Microeconomics

*The sequence CBIO 2200 and CBIO 2210 can substitute for CBIO and VPHY or PMCY

Two Social Science courses from: ANTH, HIST, INTL, PHIL, POLS, PSYC, SOCI, WMST

Three World Languages & Culture courses from: AFAM, AFST, AMHA, ARAB, ARHI, BENG, CHNS, CLAS, CMLT, FREN, GEOG, GREK, GRMN, HEBR, HIST, INDO, ITAL, JPNS, KREN, LACS, LAND, LATN, LING, MAND, NAMS, PASH, PERS, PORT, QUEC, RELI, ROML, RUSS, SCAN, SEMI, SLAV, SPAN, SWAH, TURK, URDU, VIET, YORB

SYSTEM REQUIREMENTS REMAINING
Not Applicable

PharmD Admissions Councilor
Susan Herda  |  (706) 542-5278  |  admissions@rx.uga.edu

WWW.RX.UGA.EDU