

# 5 YEAR BS/MS DUAL DEGREE PROGRAM IN PHARMACEUTICAL SCIENCES



UNIVERSITY OF  
**GEORGIA**  
College of Pharmacy

## PROGRAM OVERVIEW

The Bachelor of Science in Pharmaceutical Sciences and Master of Science in Pharmacy dual degree program at the University of Georgia provides students with an interdisciplinary education, with strong training in the pharmaceutical sciences enhanced by specialization in either regulatory science or laboratory research. Graduates of this program will have the strong knowledge and skills typical of our BS program students combined with greater practical skills.

### Currently, the BS/MS dual degree program is offered for:

- ✔ Students currently enrolled in the BS Pharmaceutical Sciences Program
- ✔ Students desiring increased exposure to bench research in the areas of pharmacology, medicinal chemistry or pharmaceuticals or advanced coursework and research in the regulatory sciences
- ✔ Students applying for highly-competitive graduate programs

The BS/MS dual degree program is the first of its kind in the nation. Students enrolled in this dual degree program will complete a 174-hour curriculum in 5 years (including two summer semesters).

The BS/MS program is available to students attending the Athens campus at the University of Georgia. Selected courses in the International Biomedical Regulatory Sciences track are taught online by practicing professionals in the field.

## BS/MS TRACKS

*M.S. track in International Biomedical Regulatory Sciences* trains students in current drug regulations governing the development and manufacturing of pharmaceuticals, biologics, medical devices, animal health and combination products. Graduates with this combined degree would be ideal for Regulatory positions in CMC (chemistry, manufacturing and control) and/or research and development. This track would provide students with considerable expertise in the global regulatory sciences and make them extremely competitive for positions in industry where most of this has to be learned on the job.

*M.S. track in Pharmaceutical and Biomedical Sciences* provides students with the ability to specialize in the areas of pharmacology, drug delivery, or medicinal chemistry. Graduates from this track would gain considerable laboratory intensive training that would provide the practical experience to make them more competitive for research positions in industry or to prepare them for highly competitive graduate programs that value previous research experience.

## WHY PURSUE DUAL BS/MS DEGREES?

The curriculum for the BS/MS program was created to offer specialized advanced training in specific areas of the pharmaceutical sciences in a more time efficient manner than obtaining the two degrees separately. The courses recommended for the BS/MS degree comply with all aspects of the University of Georgia and the University System Board of Regents policies for coursework requirements for undergraduate and graduate degrees. The credit hours for the BS portion of the degree are identical (120 hrs) while the MS portion is reduced due to the ability to conduct research during the 3rd and 4th years of the BS Program (54 vs. 108). The first two years of coursework is distributed over the categories shown below. In terms of course content, there is not a difference in the core courses of either program. However, the major electives are more restricted when choosing the BS/MS option in order to maximize the synergy between the programs.

## EARNINGS AND JOB OUTLOOK

According to the Bureau of Labor and Georgia Department of Economic Development Statistics between 2014-2024:

- ✔ Medical and clinical laboratory technologists is expected to grow by 14%
- ✔ Medical Scientist employment is expected to grow by 8.3%
- ✔ In Georgia, the areas of Professional, Scientific and Technical Services are expected to grow by over 17%

Having a dual BS/MS degree gives you access to positions in these fast-growing fields, which could increase your chances of finding employment after graduation.

## AREAS OF PRACTICE FOR BS/MS GRADUATES INCLUDE:

- ✔ Research and Development
- ✔ Quality Assurance and Quality Control
- ✔ Process Development and Validation
- ✔ Pharmacovigilance
- ✔ Compliance
- ✔ Regulatory



# ADMISSIONS INFORMATION

## APPLICATION PROCESS

Completing two rigorous degree programs simultaneously requires that students have a strong academic record. The admission requirements for the program reflect the demanding nature of graduate studies.

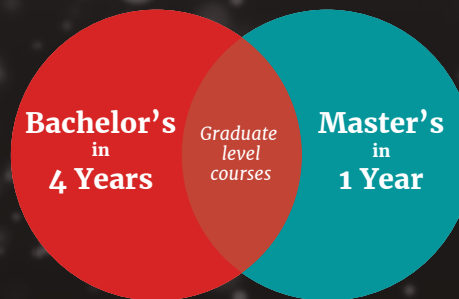
Students must follow the application instructions for the program they are applying to:

- ✦ Pharmaceutical and Biomedical Sciences Track
- ✦ International Biomedical Regulatory Sciences Track

## ADMISSION REQUIREMENTS

Admission requirements for the program require a minimum cumulative GPA of 3.3. Students may not have any grades below a B- in any MATH, ENGL, BIOL, CHEM, PHYS or PMCY courses. Applicants must submit scores from the general Graduate Record Examination.

## Undergrad + Grad = 5 years



	INTERNATIONAL BIOMEDICAL REGULATORY SCIENCES TRACK	PHARMACEUTICAL AND BIOMEDICAL SCIENCES TRACK
SUMMER	PHRM 7000 – Research PHAR 7100 – Biostatistics	PHRM 7000 – Research PHAR 7100 – Biostatistics
FALL 4TH YEAR	PMCY 6200 – Pharm. Sci. II PMCY 6500 – Drug Dev. I PMCY 4960 – Pharm. Research PMCY 8200 – PBS Dept. Seminar PHAR 6010 – Intro. Reg. Sciences PHRM 7230 – Ethics in Research	PMCY 6200 – Pharm. Sci. II PMCY 6500 – Drug Dev. I PMCY 4960 – Pharm. Research PHRM 7230 – Ethics in Research Major Elective
SPRING 4TH YEAR	BCMB 3600 – Genomics & Bioinfo. ENGL 3590W – Tech. Comm. PMCY 6510 – Drug Dev. II PMCY 4970 – Pharm. Research PHRM 7000 – Research PMCY 8200 – PBS Dept. Seminar	BCMB 3600 – Genomics & Bioinfo. ENGL 3590W – Tech. Comm. PMCY 4970 – Pharm. Research PMCY 6510 – Drug Dev. II PHRM 7000 – Research
SUMMER	PHAR 6020 – Food and Drug Law PHRM 7000 – Research	PHRM 7000 – Research
FALL 5TH YEAR	PHAR 6100 N- QC / QA PHRM 7000 – Research PHRM 8200 – Weekly Seminar	PHRM 7000 – Research PHRM 8030 – Adv. Pharma. Biopharm. PHRM 8200 – Weekly Seminar
SPRING 5TH YEAR	PHAR 6030 – cGMP PHAR 6120 – Process Control & Validation PHRM 7000 – Research PHRM 7300 – Thesis PHRM 8200 – Weekly Seminar	PHRM 7000 – Research PHRM 7300 – Thesis PHRM 8010 – Structural Bio. and Med. Chem. <b>or</b> PHRM 8020 – Molecular Pharmacology PHRM 8200 – Weekly Seminar

## CONTACTS

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**Applications Due – February 15 of each year ([www.grad.uga.edu](http://www.grad.uga.edu))**  
**For questions please contact [Dr. Michael Bartlett – mgbart@uga.edu](mailto:mgbart@uga.edu)**