



UNIVERSITY OF GEORGIA

College of Pharmacy

Pharmaceutical and Biomedical Sciences (B.S.)

Major Required Courses
36–43 hours

Required Courses for Both Areas of Emphasis

- **BCMB 3100** Introductory Biochemistry and Molecular Biology (4)
- **PMCY 4020/6020** Human Physiology (3 hours)
- **PMCY 4800/6800** Human Pharmacology (3 hours)
- **PMCY 4600/6600** Biological Therapeutics (3 hours)

Choose 1 course(s) from the following:

- **BIOL 4200W** Science and Health Writing (3 hours)
- **BIOL 4300W/6300W** Scientific Research Writing (3 hours)
- **ENGL 3590W** Technical and Professional Communication (3 hours)

Area of Emphasis: Pharmaceutical Sciences (27 hours)

- **PMCY 3200** Introduction to the Pharmaceutical Sciences (3 hours)
- **PMCY 3300L** Pharmaceutical Techniques (1 hour)
- **PMCY 3500** Pharmaceutical Analysis (3 hours)
- **PMCY 4200/6200** Pharmacokinetics and Pharmacodynamics (3 hours)
- **PMCY 4300/6300** Medicinal Chemistry (3 hours)
- **PMCY 4500/6500** Pharmaceutical Drug Development (3 hours) **AND** **PMCY 4500L/6500L** Pharmaceutical Drug Development Lab (2 hours)
- **PMCY 4510/6510** Advanced Drug Delivery Systems (3 hours) **AND** **PMCY 4510L/6510L** Advanced Drug Delivery Systems Lab (2 hours)

Choose 4 credit hour(s) from the following:

- **PMCY 4950** Pharmaceutical Sciences Internship (2–4 hours)
- **PMCY 4960** Pharmaceutical Sciences Research I (2 hours)
- **PMCY 4970** Pharmaceutical Sciences Research II (2 hours)

Area of Emphasis: Biomedical Sciences (20–21 hours)

- **CBIO 3400** Cell Biology (4 hours)
- **GENE 3200–3200D** Genetics (4 hours)
- **PMCY 4050/6050** Human Anatomy (3 hours)
- **PMCY 4110/6110** Human Immunology (3 hours)
- **PMCY 4250/6250** Biomedical Data Literacy and Applications (3 hours)

Choose one course from the following (3–4 hours)

- **MIBO 3000–3000L** Introductory Applied Microbiology (4 hours)
- **MIBO 3500** Introductory Microbiology (3 hours)



For more information, contact the PBS program academic advisor at rxadvising@uga.edu.
[Click here to visit our website.](#)

Major Electives

11-18 hours

Area of Emphasis: Pharmaceutical Sciences

(11-14 hours; 6 hours must be at 3000-level or above)

- BCHE 4510/6510 Biochemical Engineering (3 hours)
- BCMB 3600 Genomics and Bioinformatics (3 hours)
- BCMB 4030L Bioprocess Technology (4 hours)
- BCMB(ENTO)(BTEC) 4200/6200 Biotechnology (3 hours)
- BIOL 1108 Principles of Biology II (3 hours) **AND** BIOL 1108L Principles of Biology II Laboratory (1 hour)
- BIOL 4910 Advanced Topics in Biology (1-4 hours)
- BIOS 3000 Intermediate Biostatistics for Public Health Sciences (3 hours)
- CBIO 2200-2200L Anatomy and Physiology I (4 hours)
- CBIO 2210-2210L Anatomy and Physiology II (4 hours)
- CBIO 3010-3010L Functional Human Anatomy (4 hours)
- CBIO 3400 Cell Biology (4 hours)
- CBIO 3600 Developmental Biology (4 hours)
- CBIO 3710 Principles of Physiology (3 hours)
- CHEM 2300 Quantitative Analytical Chemistry (3 hours)
- CHEM 4113 Advanced Organic Chemistry III (3 hours)
- GENE 3200-3200D Genetics (4 hours)
- INFO 2000 Experiential Data Science Specialization – Foundations (3 hours)
- MATH 2260 Calculus II for Science and Engineering (4 hours)
- MIBO 2500 Microbiology and Health Care (3 hours)
- MIBO 3000-3000L Introductory Applied Microbiology (4 hours)
- MIBO 3500 Introductory Microbiology (3 hours)
- PATH(PBIO) 3010 Fungi: Friends and Foes (3 hours)
- PHAR(PMCY) 4010E Introduction to Drugs, Biologics, and Devices Regulated by the Food and Drug Administration (3 hours)
- PHRM(PMCY) 4000/6000 The War on Cancer (3 hours)
- PHRM(PMCY) 4750 Pharmaceutical & Health Care Marketing (3 hours)
- PHRM(PMCY) 5050/7050 Abused Drugs (3 hours)
- PHRM(PMCY) 5530 Ethics in Health Care (2 hours)
- PHRM(PMCY) 5540/7540 Public Health and the Health Professions (2 hours)
- PHYS 1112-1112L Introductory Physics-Electricity and Magnetism, Optics, Modern Physics (4 hours)
- PHYS 1212-1212L Principles of Physics for Scientists and Engineers-Electricity and Magnetism, Optics, Modern Physics (4 hours)
- PMCY 2020 Pills, Potions, & Drugs in Modern Medicine (3 hours)
- PMCY 4050/6050 Human Anatomy (3 hours)
- PMCY 4110/6110 Human Immunology (3 hours)
- PMCY 4150/6150 Human Pathophysiology (3 hours)
- PMCY 4250/6250 Biomedical Data Literacy and Applications (3 hours)
- PMCY 4410E Robotic Technology in Drug Discovery and Toxicology (2 hours)
- PMCY 4430E Biopharmaceutics and Pharmacokinetics (2 hours)
- PMCY 6420E Computation Approaches in Drug Discovery and Toxicology (2 hours)
- STAT 4210 Statistical Methods (3 hours)
- STAT 4220 Applied Experimental Designs (3 hours)

Area of Emphasis: Biomedical Sciences

(15-18 hours; 9 hours must be 3000-level or above)

- BCMB 3600 Genomics and Bioinformatics (3 hours)
- BCMB 4030L Bioprocess Technology (4 hours)
- BCMB(ENTO)(BTEC) 4200/6200 Biotechnology (3 hours)
- BIOL 1108 Principles of Biology II (3 hours) **AND** BIOL 1108L Principles of Biology II Laboratory (1 hour)
- BIOL 4910 Advanced Topics in Biology (1-4 hours)
- BCHE 4510/6510 Biochemical Engineering (3 hours)
- BIOS 3000 Intermediate Biostatistics for Public Health Sciences (3 hours)
- CBIO 2200-2200L Anatomy and Physiology I (4 hours)
- CBIO 2210-2210L Anatomy and Physiology II (4 hours)
- CBIO 3010-3010L Functional Human Anatomy (4 hours)
- CBIO 3600 Developmental Biology (4 hours)
- CBIO 3710 Principles of Physiology (3 hours)
- CHEM 2300 Quantitative Analytical Chemistry (3 hours)
- CHEM 4113 Advanced Organic Chemistry III (3 hours)
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- PMCY 3500 Pharmaceutical Analysis (3 hours)
- PMCY 4200/6200 Pharmacokinetics and Pharmacodynamics (3 hours)
- PMCY 4300/6300 Medicinal Chemistry (3 hours)
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- PMCY 4430E Biopharmaceutics and Pharmacokinetics (2 hours)
- PMCY 4960 Pharmaceutical Sciences Research I (1-4 hours)
- PMCY 4970 Pharmaceutical Sciences Research II (1-4 hours)
- PHYS 1212-1212L Principles of Physics for Scientists and Engineers-Electricity and Magnetism, Optics, Modern Physics (4 hours)
- STAT 4210 Statistical Methods (3 hours)
- STAT 4220 Applied Experimental Designs (3 hours)
- STAT 4230/6230 Applied Regression Analysis (3 hours)

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