

This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study.

| Critical   | Course Subject and Title   | Credit Hours | Min. Grade <sup>1</sup> | Major GPA <sup>2</sup> | Code             | Prerequisites  | Notes |
|--|--|--------------|-------------------------|------------------------|------------------|--|-------|
| <b>Semester One (17-18 Credit Hours)</b>   |  |              |                         |                        |                  |  |       |
| !  | ENGL 101 Critical Reading and Composition  | 3            | C                       |                        | CC-CMW           |  |       |
| !  | MATH 122 Calculus for Bus. Admin. & Soc. Sciences or MATH 141 Calculus 1 <sup>3</sup>  | 3-4          | C                       |                        | CC-ARP           | Math 111/1111/115 or Math placement test score             |       |
| !  | BIOL 101 & Lab – Biological Principles I   | 4            | C                       |                        | CC-SCI           |  |       |
| !  | CHEM 111 – General Chemistry I   | 3            | C                       |                        | CC-SCI           | MATH 111 or 115 or Math placement test score               |       |
| !  | CHEM 111L General Chemistry I Laboratory   | 1            | C                       |                        | PR               | MATH 111 or 115 (or higher); Prereq or Coreq: CHEM 111     |       |
|  | UNIV 101 The Student in the University ( <i>strongly recommended</i> ) or Carolina Core Requirement <sup>4</sup>                                 | 3            | C                       |                        | PR/CC            |  |       |
| <b>Semester Two (17 Credit Hours)</b>  |  |              |                         |                        |                  |  |       |
| !  | ENGL 102 Rhetoric and Composition  | 3            | C                       |                        | CC-CMW<br>CC-INF |  |       |
| !  | STAT 201 Elementary Statistics or STAT 205 Elem. Stat. for the Biological & Life Sciences  | 3            | C                       |                        | CC-ARP           | MATH 111 or 115 or STAT 110                                |       |
| !  | BIOL 102 & Lab – Biological Principles II  | 4            | C                       |                        | PR               | BIOL 101 & Lab   |       |
| !  | CHEM 112 & Lab – General Chemistry II  | 4            | C                       |                        | PR               | CHEM 111/111L & MATH 111/115/122/141 or higher math        |       |
| !  | PSYC 101 Introduction to Psychology  | 3            | C                       |                        | CC-GSS           |  |       |
| <b>Semester Three (16-19 Credit Hours)</b>   |  |              |                         |                        |                  |  |       |
| !  | BIOL 243 Human Anatomy and Physiology I  | 3            | C                       |                        | PR               |  |       |
| !  | CHEM 333 & 331 Lab – Organic Chemistry I   | 4            | C                       |                        | PR               | CHEM 112   |       |
| !  | PHYS 201 General Physics I   | 3            | C                       |                        | PR               | C or better in MATH 111/1111/112/115/116/122/141 or higher |       |
| !  | ECON 224 Introduction to Economics <sup>5</sup>  | 3            | C                       |                        | PR               |  |       |
| !  | Foreign language <sup>6</sup> or other Carolina Core Requirement <sup>4</sup>  | 3            | C                       |                        | CC-GFL           |  |       |
| !  | Carolina Core Requirement <sup>5</sup> or Approved Elective <sup>7</sup> ( <i>only if needed to meet CC Requirements or Pre-Pharmacy hours</i> ) | 0-3          | C                       |                        | CC/PR            |  |       |
| <b>Semester Four (16 Credit Hours)</b>   |  |              |                         |                        |                  |  |       |
| !  | BIOL 244 Human Anatomy & Physiology II   | 3            | C                       |                        | PR               | BIOL 243   |       |
| !  | BIOL 250 Microbiology  | 3            | C                       |                        | PR               | College-level biology & chemistry                          |       |
| !  | CHEM 334 & 332 Lab – Organic Chemistry II  | 4            | C                       |                        | PR               | CHEM 333 & 331 Lab   |       |
| !  | SAEL 200 Social Advocacy Ethical Life ( <i>also meets CC-VSR</i> ) or SPCH 140 Public Communication  | 3            | C                       |                        | CC-CMS           |  |       |
| !  | Foreign language <sup>6</sup> or other Carolina Core Requirement <sup>4</sup>  | 3            | C                       |                        | CC-GFL           |  |       |
| <b>Must be admitted into the Pharm.D Professional Program to complete years 3 and 4.<sup>8</sup></b> |  |              |                         |                        |                  |  |       |
| <b>Semester Five (17 Credit Hours)</b>   |  |              |                         |                        |                  |  |       |
|  | PHMY 602 Found. of Pathophysiology & Pharmacology I  | 2            | C                       |                        | MR               |  |       |
|  | PHMY 621 Found. of Medicinal Chemistry I   | 3            | C                       |                        | MR               |  |       |
|  | PHMY 607 Dosage Forms & Drug Delivery Systems  | 4            | C                       |                        | MR               |  |       |
|  | PHMY 615 Pharmaceutical Biochemistry   | 3            | C                       |                        | MR               |  |       |
|  | PHMY 650 Introduction to Pharmacy Practice   | 2            | C                       |                        | MR               |  |       |
|  | PHMY 656 Pharmacy Calculations   | 1            | C                       |                        | MR               |  |       |
|  | PHMY 657 Medical Terminology   | 1            | C                       |                        | MR               |  |       |
|  | PHMY 680 Intro. to Drug Information  | 1            | C                       |                        | MR               |  |       |
| <b>Semester Six (16 Credit Hours)</b>  |  |              |                         |                        |                  |  |       |
|  | PHMY 603 Found. of Pathophysiology & Pharmacology II   | 3            | C                       |                        | MR               |  |       |
|  | PHMY 624 Found. of Medicinal Chemistry II  | 3            | C                       |                        | MR               |  |       |
|  | PHMY 618 Genomics, Pharmacogenomics, & Personalized Medicine   | 3            | C                       |                        | MR               |  |       |
|  | PHMY 690 Transforming Health Care  | 2            | C                       |                        | MR               |  |       |
|  | PHMY 661 Clinical Applications II  | 1            | C                       |                        | MR/CC-INT        |  |       |
|  | PHMY 750 Self-Care & Complementary Medicines   | 4            | C                       |                        | MR               |  |       |
| <b>Semester Seven (15 Credit Hours)</b>  |  |              |                         |                        |                  |  |       |
|  | PHMY 610 Microbiology & Immunology   | 4            | C                       |                        | MR               |  |       |
|  | PHMY 710 Biopharmaceutics & Pharmacokinetics   | 3            | C                       |                        | MR               |  |       |
|  | PHMY 722 Pathophysiology & Pharmacology I  | 3            | C                       |                        | MR               |  |       |
|  | PHMY 760 Clinical Applications III   | 1            | C                       |                        | MR               |  |       |
|  | PHMY 772 Pharmacotherapy I   | 4            | C                       |                        | MR               |  |       |

| Semester Eight (14 Credit Hours)  |  |   |   |  |    |  |
|---|--|---|---|--|----|--|
|   | PHMY 723 Pathophysiology & Pharmacology II | 2 | C |  | MR |  |
|   | PHMY 761 Clinical Applications IV          | 1 | C |  | MR |  |
|   | PHMY 773 Pharmacotherapy II                | 5 | C |  | MR |  |
|   | PHMY 780 Outcomes Design & Assessment      | 3 | C |  | MR |  |
|   | PHMY 890 Clinical Pharmacokinetics         | 3 | C |  | MR |  |
| The Bachelor of Science of Pharmaceutical Science excludes labs, electives, and introductory practice experiences course taken within years 3 and 4 (years 1 and 2 of Pharm.D professional program). The Pharm.D program is a total of four professional years. |  |   |   |  |    |  |

### Graduation Requirements Summary

| Minimum Total Hours | Minimum Major Requirements Hours | College & Program Requirements Hours | Carolina Core Hours | Minimum Institutional GPA |
|---------------------|----------------------------------|--------------------------------------|---------------------|---------------------------|
| 128                 | 62                               | 32-35                                | 31-34               | 2.0                       |

- Regardless of individual course grades, students must maintain a minimum 2.5 cumulative GPA to be eligible for admission to the Pharm.D program.
- Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study.
- Students who do not place into the required ARP courses must complete the necessary prerequisites before continuing with the required Carolina Core ARP courses.
- The [Carolina Core](#) provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students. Carolina Core courses in foreign language for GFL, history (U.S. or World) for GHS, fine arts for AIU, or political science or other VSR courses may be used to complete the Liberal Arts electives required in the Pre-Pharmacy curriculum.
- Students may substitute ECON 224 with either ECON 221 or ECON 222.
- Students in the College of Pharmacy are required to demonstrate proficiency in one foreign language by a score of 2 or higher on the foreign language placement test, or by completing six hours of SPAN, FREN, GERM, or LATN, or by completing four hours of ARAB, CHIN, GREK, ITAL, JAPA, PORT, or RUSS.
- Elective courses will be needed if the Pre-Pharmacy hour total is less than 66.
- In order to apply to the Pharm.D Professional Program and complete years 3 and 4 of the B.S. in Pharmaceutical Sciences, candidates must have a minimum 2.5 cumulative GPA. Other criteria such as application materials, PCAT scores, interview evaluations, and letters of recommendation do apply. A grade of C or higher must be earned in all coursework. Visit [Pharm.D Admissions](#) for more information.

### Program Notes:

- Courses identified as "critical" are prerequisites for the Pharm.D Professional Program and must be completed prior to admission.
- A total of 214 hours (66 hours of pre-pharmacy courses and 148 hours of professional program courses) are required for completion of the Doctor of Pharmacy degree. Pre-Pharmacy students have the option of obtaining a Bachelor of Science in Pharmaceutical Sciences at the end of their second professional year in pharmacy school. The final 62 credit hours required for the B.S. in Pharmaceutical Sciences degree are earned after admission to the University of South Carolina College of Pharmacy and during the first two years of the professional Doctor of Pharmacy program. The specific course requirements are described on the [College of Pharmacy](#) website under Pharm.D program.
- If a student has deficiencies (obtains a D+, D, F or U) in more than four courses during any given academic year, he/she will be dismissed from the pharmacy program.

**University Requirements:** Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the [Carolina Core](#) page on the University website.

| Codes:        |  |               |   |
|---------------|--|---------------|---|
| <b>CC</b>     | Carolina Core  | <b>CC-INF</b> | Carolina Core – Information Literacy                      |
| <b>CC-AIU</b> | Carolina Core-Aesthetic and Interpretive Understanding                             | <b>CC-INT</b> | Carolina Core – Integrative Course                        |
| <b>CC-ARP</b> | Carolina Core-Analytical Reasoning and Problem-Solving                             | <b>CC-SCI</b> | Carolina Core – Scientific Literacy                       |
| <b>CC-CMS</b> | Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component   | <b>CC-VSR</b> | Carolina Core – Values, Ethics, and Social Responsibility |
| <b>CC-CMW</b> | Effective, Engaged, and Persuasive Communication: Written Component                | <b>CR</b>     | College Requirement                                       |
| <b>CC-GFL</b> | Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language | <b>MR</b>     | Major Requirement   |
| <b>CC-GHS</b> | Carolina Core – Historical Thinking  | <b>PR</b>     | Program Requirement                                       |
| <b>CC-GSS</b> | Carolina Core – Social Sciences  |               |   |

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.