

## COLLEGE OF PHARMACY AND HEALTH SCIENCES PHARMACEUTICAL SCIENCES

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### THE CAMPBELL PROGRAM

The Pharmaceutical Sciences major provides students with a broad background in basic and applied sciences. While in this program, our students gain strong quantitative, analytical, and communication skills. Most importantly, they gain the practical experience that industry demands of its employees.

The objective of the major is to prepare students for careers in the pharmaceutical industry with particular emphasis on pharmaceutical sciences. Graduates will be prepared to enter research and technical positions in the pharmaceutical industry or to pursue postgraduate studies.

### THE CAMPBELL APPROACH

The majority of Pharmaceutical Sciences courses include labs where you will have the opportunity hone your technical skills. Moreover, there's the benefit of a Senior Internship taken during your final semester.

You'll have an opportunity to do your internships in North Carolina's Research Triangal Park area, home to many world-renowned pharmaceutical and chemical companies.

### THE CAMPBELL FACULTY

Campbell is a student-oriented university, which means we make students' educational need our top priority. Interacting inside and outside the classroom with our faculty is a plus. All faculty members maintain an open door policy and encourage you to take advantage of their vast experience.

Our professors in Pharmaceutical Sciences are experienced teachers, as well as practicing scientists. They routinely present papers at major national and international forums and publish their findings in top scientific journals. They are also frequently called upon to serve as expert consultants for federal agencies like the FDA and EPA and for major companies world wide.

For more information about the program contact:

The Program Coordinator  
1-800-760-9734, ext. 1838  
pharmsci@campbell.edu

### THE CAMPBELL RESOURCES

We have state-of-the-art scientific instruments and labs for you to use at Campbell. We've created a unique cooperative arrangement that will give you the chance to visit cutting-edge facilities at a variety of institutions. Scientists from many of central North Carolina's major research institutions will work with you in our program.

We sponsor several clubs and professional organizations relevant to the field, which will help you to become better acquainted with career opportunities.

### PHARMACEUTICAL SCIENCES: BACHELOR OF SCIENCE

We're looking for students with strong interests in research and the technical aspects of pharmaceutical sciences who possess a sound background in the biological, chemical, and physical sciences.

Candidates for the BS degree with a major in pharmaceutical sciences (BSPS) must satisfy all College of Arts and Sciences requirements as set forth in the General College Curriculum section of the university catalog. Prior to entering the major, students must have completed a minimum of 64 semester hours of college credit taken from the core liberal arts curriculum and must include the following courses or their equivalents: Basic Biology, Human Anatomy and Physiology, Microbiology and Immunology, General Chemistry (2 semesters), Organic Chemistry (2 semesters), Calculus, and General Physics (2 semesters).

The course work for this major is rigorous and challenging and is accompanied by a significant amount of student autonomy. Strong analytical skills are necessary, along with high personal motivation, perseverance, and dedication.

## The Campbell Advantage

Although this is a relatively new major at Campbell, we have an impressive track record in the natural sciences, and we are making a strong commitment to this field. As a result, you'll discover at Campbell:

- A widely respected, award-winning faculty committed to your success and well-being.
- A program designed to complement your initiative and talents with a significant advantage in gaining acceptance to entry-level research and technical positions and graduate or professional schools.
- A distinctive dedication to quality liberal arts educations, free enterprise, and our Christian Mission.

## Curriculum Outline Pharmaceutical Sciences

**CAMPBELL**  
**UNIVERSITY**

### FRESHMAN YEAR

| SEMESTER 1                   |           |     | SEMESTER 2              |          |     |
|------------------------------|-----------|-----|-------------------------|----------|-----|
|                              |           | HRS |                         |          | HRS |
| GENERAL CHEMISTRY I          | CHEM 111  | 4   | GENERAL CHEMISTRY II    | CHEM 113 | 4   |
| BASIC BIOLOGY                | BIOL 111  | 4   | HUMAN ANATOMY & PHYS    | BIOL 221 | 4   |
| FRESHMAN COMPOSITION I       | ENGL 101  | 3   | CALCULUS                | MATH 122 | 4   |
| INTRO TO ART, MUSIC, OR THEA | A/M/T 131 | 3   | FRESHMAN COMPOSITION II | ENGL 102 | 3   |
| LIFETIME WELLNESS            | PE 185    | 2   | INTRO. TO CHRISTIANITY  | RELG 125 | 3   |
| PRE-PHARMACY SEMINAR         | PHAR 100  | 1   | CU WORSHIP              | CUW 100  | 0.5 |
| CU WORSHIP                   | CUW 100   | 0.5 |                         |          |     |

### SOPHOMORE YEAR

| SEMESTER 3                |          |     | SEMESTER 4              |          |     |
|---------------------------|----------|-----|-------------------------|----------|-----|
|                           |          | HRS |                         |          | HRS |
| ORGANIC CHEMISTRY I       | CHEM 227 | 4   | ORGANIC CHEMISTRY II    | CHEM 228 | 4   |
| MICROBIOLOGY & IMMUNOLOGY | BIOL 334 | 4   | GENERAL PHYSICS II      | PHYS 222 | 4   |
| GENERAL PHYSICS I         | PHYS 221 | 4   | LIT I (BRIT/AMER/WORLD) | ENGL 20_ | 3   |
| WESTERN CIVILIZATION I    | HIST 111 | 3   | WESTERN CIVILIZATION II | HIST 112 | 3   |
| EXERCISE ACTIVITY         | PE 111   | 1   | ECONOMICS               | ECON 200 | 3   |
| CU WORSHIP                | CUW 200  | 0.5 | CU WORSHIP              | CUW 200  | 0.5 |

### JUNIOR YEAR

| SEMESTER 5               |              |     | SEMESTER 6              |              |     |
|--------------------------|--------------|-----|-------------------------|--------------|-----|
|                          |              | HRS |                         |              | HRS |
| GENERAL BIOCHEM          | PHSC 323/325 | 4   | INTRO TO PHARMACOLOGY   | PHSC 328     | 4   |
| LABORATORY SAFETY        | PHSC 210     | 1   | ANALYTICAL INSTRMNT     | PHSC 410/411 | 4   |
| QUAN LAB TECHNIQUES      | PHSC 220     | 2   | PRODUCT & PROCESS VALID | PHSC 338     | 2   |
| LIT II (BRIT/AMER/WORLD) | ENGL 20_     | 3   | MOLECULAR BIOLOGY       | PHSC 326/327 | 4   |
| INTER FOREIGN LANG I     | LANG 201     | 3   | INTERPERSONAL SKILLS    | PHSC 442     | 2   |
| EXPER DESIGN & BIOSTATS  | PHSC 324     | 4   | SCI LIT SEMINAR I       | PHSC 334     | 1   |
| SCI & TECH WRITING       | PHSC 451     | 1.5 |                         |              |     |

### SENIOR YEAR

| SEMESTER 7              |              |     | SEMESTER 8        |          |     |
|-------------------------|--------------|-----|-------------------|----------|-----|
|                         |              | HRS |                   |          | HRS |
| INDUSTRIAL PHARMACY     | PHSC 418/419 | 4   | SENIOR INTERNSHIP | PHSC 420 | 14  |
| PHARM METH & BIOPRO     | PHSC 438/439 | 4   | SENIOR SEMINAR    | PHSC 416 | 1   |
| SOCIAL SCIENCE ELECTIVE | UNIV         | 3   |                   |          |     |
| SCI LIT SEMINAR II      | PHSC 336     | 1   |                   |          |     |
| RELIGION ELECTIVE       | RELG         | 3   |                   |          |     |

*The major requirements outlined within this brochure are intended as a guideline, and the curriculum outlines are only a sample. The most recent copy of the University's Undergraduate Studies Bulletin is the official source related to curriculum guidelines. It is the student's responsibility to consult with his/her academic advisor.*

## Interested?

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Admissions Office  
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**1-800-334-4111**  
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*Consider us. Visit us. Call us today.*