

B.S. DEGREE IN PHARMACEUTICAL SCIENCE  
**INDUSTRY TRACK**

| FRESHMAN YEAR                             |   |           |  |   |           |
|---|---|-----------|--|---|-----------|
| FALL SEMESTER                             |   |           | SPRING SEMESTER  |   |           |
| NUMBER                                    | COURSE NAME   | CH        | NUMBER   | COURSE NAME   | CH        |
| ENG 101                                   | WRITTEN COMMUNICATION I                               | 3         | ENG 102  | WRITTEN COMMUNICATION II                                  | 3         |
| MAT 117 <sup>1</sup>                      | PRECALCULUS MATHEMATICS I <sup>1</sup>                | 3         | HEA 200<br>PED 205   | HEALTH EDUCATION OR ANY 2 CH<br>PHYSICAL EDUCATION COURSE | 2         |
| BIO 105                                   | INTRODUCTION TO BIOLOGY I W/LAB                       | 4         | BIO 106  | INTRODUCTION TO BIOLOGY II W/LAB                          | 4         |
| UNV 101                                   | UNIVERSITY 101: THE INDIVIDUAL AND<br>LIFE            | 1         | MAT 130 <sup>1</sup>   | CALCULUS <sup>1</sup>                                     | 3         |
| CHE 201                                   | GENERAL CHEMISTRY AND QUALITATIVE<br>ANALYSIS I W/LAB | 4         | CHE 202  | GENERAL CHEMISTRY AND QUALITATIVE<br>ANALYSIS II W/LAB    | 4         |
|   | <b>TOTAL</b>  | <b>15</b> |  | <b>TOTAL</b>  | <b>16</b> |
| SOPHOMORE YEAR                            |   |           |  |   |           |
| FALL SEMESTER                             |   |           | SPRING SEMESTER  |   |           |
| NUMBER                                    | COURSE NAME   | CH        | NUMBER   | COURSE NAME   | CH        |
| CHE 301                                   | GENERAL ORGANIC CHEMISTRY I W/LAB                     | 4         | CHE 302  | GENERAL ORGANIC CHEMISTRY II W/LAB                        | 4         |
| BIO 304                                   | MICROBIOLOGY  | 4         | HIS 106  | WORLD CIVILIZATIONS II                                    | 3         |
| PHY 201                                   | INTRODUCTORY PHYSICS I                                | 4         | HUM 201  | HUMANITIES I  | 3         |
| PHY 215                                   | INTRODUCTORY PHYSICS I LAB                            | 1         | SOC 205 <sup>2</sup><br>PSY 203 <sup>2</sup><br>PSY 308 <sup>2</sup> | SOCIAL SCIENCE ELECTIVE <sup>2</sup>                      | 3         |
| COM 103                                   | ORAL COMMUNICATION                                    | 3         | BIO 305  | PRINCIPLES OF HEREDITY                                    | 3         |
|   | <b>TOTAL</b>  | <b>16</b> |  | <b>TOTAL</b>  | <b>16</b> |
| JUNIOR YEAR                               |   |           |  |   |           |
| FALL SEMESTER                             |   |           | SPRING SEMESTER  |   |           |
| NUMBER                                    | COURSE NAME   | CH        | NUMBER   | COURSE NAME   | CH        |
| BIO 224                                   | HUMAN ANATOMY & PHYSIOLOGY I W/LAB                    | 4         | BIO 225  | HUMAN ANATOMY & PHYSIOLOGY II<br>W/LAB                    | 4         |
| PHA 300                                   | QUANTITATIVE LAB TECHNIQUES                           | 2         | BIO 544  | MEDICAL MICROBIOLOGY                                      | 3         |
| NUR 320                                   | SCIENTIFIC WRITING FOR HEALTH<br>PROFESSIONALS        | 3         | PHA 312  | DRUG DISCOVERY, DESIGN, AND<br>DEVELOPMENT                | 3         |
| MAT 205                                   | INTRODUCTION TO STATISTICS                            | 3         | PHA 317  | PHARMACEUTICAL ANALYSIS                                   | 3         |
|   |   |           | PHA 318  | RESPONSIBLE CONDUCT OF RESEARCH                           | 1         |
|   |   |           | PHA 416  | BIOSTATISTICS AND RESEARCH METHODS                        | 3         |
|   | <b>TOTAL</b>  | <b>12</b> |  | <b>TOTAL</b>  | <b>17</b> |
| SUMMER SEMESTER                           |   |           |  |   |           |
| NUMBER                                    | COURSE NAME   | CH        |  |   |           |
| PHA 399                                   | RESEARCH EXTERNSHIP                                   | 1         |  |   |           |
|   | <b>TOTAL</b>  | <b>1</b>  |  |   |           |
| SENIOR YEAR                               |   |           |  |   |           |
| FALL SEMESTER                             |   |           | SPRING SEMESTER  |   |           |
| NUMBER                                    | COURSE NAME   | CH        | NAME   | COURSE NAME   | CH        |
| PHA 311                                   | PHYSIOLOGIC BIOCHEMISTRY                              | 3         | PHA 314  | MEDICINAL CHEMISTRY I                                     | 4         |
| PHA 371                                   | BIOPHARMACEUTICS I                                    | 3         | PHA 310  | MEDICAL IMMUNOLOGY  | 2         |
| PHA 373                                   | BIOPHARMACEUTICS I LAB                                | 1         | PHA 372  | BIOPHARMACEUTICS II                                       | 3         |
| PHA 433                                   | GENERAL PHARMACOLOGY I                                | 3         | PHA 374  | BIOPHARMACEUTICS II LAB                                   | 1         |
| PHA 499                                   | RESEARCH CAPSTONE                                     | 0         | PHA 316  | PRINCIPLES OF DRUG INFORMATION                            | 3         |
| FREE<br>ELECTIVE                          | ELECTIVE **   | 2         | PHA 434  | GENERAL PHARMACOLOGY II                                   | 3         |
|   |   |           | PHA 499  | RESEARCH CAPSTONE   | 0         |
|   | <b>TOTAL</b>  | <b>12</b> |  | <b>TOTAL</b>  | <b>16</b> |
| <b>TOTAL CREDIT HOURS: INDUSTRY TRACK</b> |   |           | <b>120</b>   |   |           |

<sup>1</sup>STUDENTS MAY ELECT TO TAKE CALCULUS I & II (MAT 151-152) INSTEAD OF PRECALCULUS MATHEMATICS I (MAT 117) AND MAT 130. NOTE THAT PRECALCULUS MATHEMATICS II (MAT 118), (MAT 117) IS THE PREREQUISITE TO CALCULUS I.

<sup>2</sup>STUDENTS MAY ELECT TO TAKE INTRODUCTION TO SOCIOLOGY (SOC 205), INTRODUCTIONS TO PSYCHOLOGY (PSY 203), OR PHYSIOLOGICAL PSYCHOLOGY (PSY 308). NOT THAT INTRODUCTION TO PSYCHOLOGY (PSY 203) IS THE PREREQUISITE TO PHYSIOLOGICAL PSYCHOLOGY.

\*\* STUDENTS MAY ELECT TO TAKE ANY PHARMACY ELECTIVE OR TAKE INTRODUCTION TO COMPUTERS (CSC 12), PRINCIPLES OF MARKETING (MKT 305), OR SALES MANAGEMENT (MKT 328). NOTE THAT PRINCIPLES OF MARKETING (MKT 305) IS A PREREQUISITE TO SALES MANAGEMENT.

NOTE 1: ALL COURSE ENROLLMENTS FOR THE SENIOR YEAR REQUIRE ADMINISTRATIVE APPROVAL FROM THE SCHOOL OF PHARMACY