

# Pharmacology (PhD)

**Program:** Pharmacology

**Type:** PhD

## First Year Fall

| Item #                   | Title  | Credits   |
|--------------------------|--|-----------|
| BIOC-101                 | General Biochemistry                               | 4         |
| PHAR-219                 | Graduate Biomedical Informatics                    | 2         |
| PHAR-204                 | Literature Seminar                                 | 1         |
| PHAR-205                 | Research Seminar                                   | 1         |
| PHAR-200                 | Introduction to General Principles of Pharmacology | 3         |
| <b>Sub-Total Credits</b> |  | <b>11</b> |

## First Year Spring

- PHAR-400 Research \*Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

| Item #                   | Title  | Credits   |
|--------------------------|--|-----------|
| PHSI-171                 | Basic Medical Physiology                         | 7         |
| PHAR-400                 | Research (M.S. Thesis or Ph.D. Dissertation)     | 1-2       |
| PHAR-201                 | Introduction to Pharmacological Research Methods | 3         |
| <b>Sub-Total Credits</b> |  | <b>11</b> |

## First Year Summer

- PHAR-400 Research \*Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

| Item #                   | Title  | Credits  |
|--------------------------|--|----------|
| PHAR-400                 | Research (M.S. Thesis or Ph.D. Dissertation) | 1-2      |
| <b>Sub-Total Credits</b> |  | <b>2</b> |

## Second Year Fall

- PHAR-400 Research \*Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

| Item #                   | Title  | Credits  |
|--------------------------|--|----------|
| PHAR-216                 | General and Systematic Pharmacology I        | 4        |
| PSYC-277                 | Applied Multivariate Statistics              | 3        |
| PHAR-400                 | Research (M.S. Thesis or Ph.D. Dissertation) | 1-2      |
| <b>Sub-Total Credits</b> |  | <b>9</b> |

## Second Year Spring

- PHAR-400 Research \*Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

| Item #   | Title  | Credits  |
|----------|--|----------|
| PHAR-217 | General and Systematic Pharmacology II       | 4        |
| PHAR-203 | Intro to theory and Methods in Toxicology    | 4        |
| PHAR-400 | Research (M.S. Thesis or Ph.D. Dissertation) | 1-2      |
|          | <b>Sub-Total Credits</b>                     | <b>9</b> |

## Second Year Summer

- PHAR-400 Research \*Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

| Item #   | Title  | Credits  |
|----------|--|----------|
| PHAR-400 | Research (M.S. Thesis or Ph.D. Dissertation) | 1-2      |
|          | <b>Sub-Total Credits</b>                     | <b>2</b> |

## Third Year Fall

| Item #   | Title                                       | Credits   |
|----------|---|-----------|
| PHAR-202 | Experimental Design and Statistical Methods | 4         |
| PHAR-208 | Advanced Problems in Pharmacology           | 4         |
| PHAR-209 | Drug Development in Clinical Pharmacology   | 2         |
|          | <b>Sub-Total Credits</b>                    | <b>10</b> |

## Third Year Spring

| Item #   | Title                              | Credits   |
|----------|------------------------------------|-----------|
| PHSI-251 | Advanced Endocrinology             | 3         |
| PHAR-425 | Advanced Seminar on Special Topics | 2         |
| PHSI-260 | Cardiovascular Physiology          | 3         |
| PHAR-220 | Alcohol Studies                    | 2         |
|          | <b>Sub-Total Credits</b>           | <b>10</b> |

## Fourth Year Fall

| Item #   | Title                         | Credits   |
|----------|-------------------------------|-----------|
| PHAR-402 | Dissertation Writing for PhD  | 1         |
| PHSI-269 | Renal Physiology              | 3         |
| PHSI-252 | Cell and Molecular Physiology | 3         |
| PHSI-206 | Neurophysiology               | 3         |
|          | <b>Sub-Total Credits</b>      | <b>10</b> |

## Fourth Year Spring

| <b>Item #</b> | <b>Title</b>                          | <b>Credits</b> |
|---------------|---------------------------------------|----------------|
| PHAR-424      | Special Problems in Neuropharmacology | 4              |
| PHAR-212      | Cellular and Biochemical Pharmacology | 2              |
|               | Pharmacology Elective (4crs)          | 4              |
|               | <b>Sub-Total Credits</b>              | <b>10</b>      |
|               | <b>Total credits:</b>                 | <b>84</b>      |