

# CERTIFICATE IN REGULATORY SCIENCE

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## Curriculum

| Code   | Title  | Credit Hours   |
|--|--|----------------|
| <b>Required courses</b>  |  | <b>(10-12)</b> |
| CHEM 518   | Understanding the International Conference on Harmonization Guidelines | 3              |
| CHEM 519   | Good Manufacturing Practices   | 3              |
| Select four to six credit hours from the designated regulatory science electives |  | 4-6            |
| <b>Total Credit Hours</b>  |  | <b>10-12</b>   |

## Regulatory Science Electives

| Code     | Title   | Credit Hours |
|----------|---|--------------|
| BIOL 410 | Medical Microbiology                                | 3            |
| BIOL 445 | Cell Biology  | 3            |
| BIOL 503 | Virology  | 3            |
| BIOL 504 | Biochemistry  | 3            |
| BIOL 512 | Advanced Biochemistry                               | 3            |
| BIOL 514 | Toxicology  | 3            |
| BIOL 515 | Molecular Biology                                   | 3            |
| BIOL 526 | Developmental Biology                               | 3            |
| BIOL 527 | Immunology and Immunochemistry                      | 3            |
| BIOL 530 | Human Physiology                                    | 3            |
| BIOL 542 | Advanced Microbiology                               | 3            |
| BIOL 544 | Molecular Biology of Cells                          | 3            |
| BIOL 545 | Advanced Cell Biology                               | 3            |
| BIOL 550 | Bioinformatics                                      | 3            |
| BIOL 555 | Macromolecular Structure                            | 3            |
| BIOL 562 | Current Topics in Functional Genomics               | 3            |
| CHEM 500 | Advanced Analytical Chemistry                       | 3            |
| CHEM 505 | Spectroscopic Methods I                             | 3            |
| CHEM 508 | Analytical Methods Development                      | 2            |
| CHEM 700 | Practical Laboratory for Analytical Chemistry       | 2            |
| CHEM 509 | Physical Methods of Characterization                | 3            |
| CHEM 512 | Spectroscopic Methods II                            | 2            |
| CHEM 515 | Gas Chromatography -- Theory and Practice           | 3            |
| CHEM 516 | Liquid Chromatography -- Theory and Practice        | 3            |
| CHEM 524 | Synthesis and Intellectual Property Management      | 2            |
| CHEM 542 | Polymer Characterization and Analysis               | 3            |
| CHEM 543 | Analytical Chemistry in Pharmaceutical Laboratories | 2            |
| CHEM 544 | Colloids and Colloid Analysis                       | 2            |