

# PHARMACEUTICAL SCIENCES RESEARCH, EMPHASIS

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## Pharmaceutical Research Emphasis

Master the lifecycle of therapeutic agents, from target identification and rational drug design to formulation and pre-clinical evaluation. Gain hands-on expertise in medicinal chemistry and pharmaceuticals while conducting translational research alongside NIH-funded faculty. This Area of Emphasis prepares graduates for high-demand roles in the pharmaceutical industry, government agencies, and research institutions.

## Course Requirements

Pharmaceutical Research Emphasis

| Code   | Title  | Credit Hours |
|--|--|--------------|
| <b>Core Courses</b>                            |  |              |
| MSPS 542                                       | Science Seminars (Taken two times)                             | 1            |
| MSPS 544                                       | Prin Dis Drug Action   | 4            |
| MSPS 561                                       | Biopharmaceutics I   | 3            |
| MSPS 562                                       | Biopharmaceutics II  | 3            |
| <b>Pharmaceutical Research Emphasis</b>        |  |              |
| MSPS 542                                       | Science Seminars (Taken two additional times for the Emphasis) | 1            |
| MSPS 699                                       | Thesis (Maximum twelve credit hours can be applied to major)   | 1-6          |
| Select 4-6 hours from the following Electives: |  | 4-6          |
| MSPS 512                                       | Med Chem & Drug Disc   |              |
| MSPS 531                                       | Regulatory Affairs   |              |
| MSPS 581                                       | Special Topics   |              |
| MSPS 585                                       | Independent Study  |              |
| MSPS 586                                       | Problem Report   |              |
| MSPS 632                                       | Prod Dev by Quality Design                                     |              |
| MSPS 681                                       | Special Topics   |              |
| MSPS 682                                       | Special Topics   |              |
| MSPS 685                                       | Independent Study  |              |
| MSPS 686                                       | Problem Report   |              |
| <b>Total Credit Hours</b>                      |  | <b>17-24</b> |