

Organic Chemistry Degree Plan

First year DBS students take 12 credit hours in fall and spring, and 6 credit hours in the summer semesters. In subsequent years they are enrolled in 9 credit hours in fall and spring, and 6 credit hours in the summer. Typically, didactic coursework is completed in the first year, and in subsequent years students are enrolled in dissertation research and a Work-In-Progress (WIP) seminar totaling full-time enrollment equivalency. Advancement of the student to Ph.D. candidacy is dependent upon successful completion of all coursework and the qualifying examination, which takes place in the second year.

| Year | Term | Half/ Full | Title | Credit Hour | Total Credit Hrs/Term |
|------------------------------|--------|----------------------|---|----------------|--------------------------|
| First Year | Fall | 1 st Half | Core Curriculum - Proteins | 2 | |
| | | 2 nd Half | Drug Discovery | 1.5 | |
| | | Full | Chemical Structure & Reactivity | 3 | |
| | | | Advanced Problems in Reaction Mechanisms I | 1.5 | |
| | | | Professionalism, Responsible Conduct of Research, and Ethics I | 1 | |
| | | | Laboratory Rotations | 3 | Semester Total: 12 |
| | Spring | 1 st Half | Chemical Synthesis | 1.5 | |
| | | | Materials Chemistry | 1.5 | |
| | | 2 nd Half | Advanced Synthesis & Catalysis | 1.5 | |
| | | | Enzymes & Disease | 1.5 | |
| | | | Advanced Problems in Reaction Mechanisms II | 1.5 | |
| | | Full | Professionalism, Responsible Conduct of Research, and Ethics II | 1 | |
| | | | Laboratory Rotations | 3.5 | Semester Total: 12 |
| | Summer | | Research | 6 | Semester Total: 6 |
| Second Year | Fall | 1 st Half | Grant Writing Workshop | – | |
| | | Full | Research | 8 | |
| | | | Work-In-Progress Seminar (WIP) | 1 | Semester Total: 9 |
| | Spring | Full | Research | 8 | |
| | | | Work-In-Progress Seminar (WIP) | 1 | Semester Total: 9 |
| | Summer | | Dissertation Research | 6 | Semester Total: 6 |
| Third Year | Fall | Full | Dissertation Research | 8 | |
| | | | Work-In-Progress Seminar (WIP) | 1 | Semester Total: 9 |
| | Spring | Full | Dissertation Research | 8 | |
| | | | Work-In-Progress Seminar (WIP) | 1 | Semester Total: 9 |
| | Summer | | Dissertation Research | 6 | Semester Total: 6 |
| Fourth Year & Beyond | Fall | Full | Dissertation Research | 8 | |
| | | | Work-In-Progress Seminar (WIP) | 1 | Semester Total: 9 |
| | Spring | Full | Dissertation Research | 8 | |
| | | | Work-In-Progress Seminar (WIP) | 1 | Semester Total: 9 |
| | Summer | | Dissertation Research | 6 | Semester Total: 6 |
| Minimum Credit Hours for PhD | | | | 102 | |