**Milestones Checklist: Major Programmatic Milestones Rubric for Earning a Ph.D. in Chemistry**

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| **Check and date when completed** | **Milestone** | **Requirement** | **Deadline** | **Notes** |
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 | Proficiency Requirements Completed | Demonstrate proficiency in 3 out of 5 areas of chemistry by scoring ≥50th percentile on ACS exam, completing an undergraduate core course with C or better or completing a graduate course in the appropriate sub-discipline of chemistry with B or better. | Must be completed prior to the start of 3rd semester | List proficiencies satisfied and circle to indicate whether satisfied by exam or course.Analytical *Exam Course Name:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Biochemistry  *Exam Course Name:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Inorganic *Exam Course Name:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Organic *Exam Course Name:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Physical *Exam Course Name:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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 | Orientation Course | Completion of Orientation course  | Typically taken in 1st semester in residence but can be taken in 2nd semester for spring admissions | Semester completed: |
|  | Responsible Conduct of Research | Completion of Ethics in Chemical Sciences course | Taken within one year of being appointed on a federal grant, frequently in the 2nd year (spring).  | Semester completed: |
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 | Advanced Course Requirement | 11 SH of graduate coursework approved by advisor (Some undergraduate courses can be used to fulfill the advanced course requirement; see Guidelines for Graduate Study) | Must be completed prior to the end of the 4th semester | Courses completed for Advanced Coursework Requirement:*Course Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: \_\_\_\_\_**Course Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: \_\_\_\_\_**Course Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: \_\_\_\_\_**Course Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: \_\_\_\_\_* |
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 | Committee Formation | Must be formed by the beginning of the third semester | Must be formed by the beginning of the third semester | Committee Members:1) Advisor:2)3)4)5) |
|  | Seminars | Deliver two acceptable seminars, at least one of which covers research | Typically one in the 2nd year and the other a few months prior to their defense (3 month seminar) | Seminar title:Date delivered:Seminar title:Date delivered: |
|  | Comprehensive Exam  | See Graduate Student Guidelines | Completed by the end of the 4th semester | Date documents submitted:Date comprehensive exam passed: |
|  | First Publication |  |  | DOI: |
|  | Final Defense |  |  |  |