**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** |
|  | 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:* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | 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: |
|  | 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: \_\_\_\_\_* |
|  | 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 |  |  |  |