

**Ph.D. Degree Requirements Worksheet**  
**Agricultural & Environmental Chemistry Graduate Group**

**Name:** \_\_\_\_\_ **Acad. Advisor:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
 BS School: \_\_\_\_\_ Major: \_\_\_\_\_ Date: \_\_\_\_\_  
 MS School: \_\_\_\_\_ Major: \_\_\_\_\_ Date: \_\_\_\_\_

**A. Prerequisites**

*Organic Chemistry: Required to have equivalent of courses CHE 128 A, B, and C*

	School	Course #	Term/Year	Grade
128 A or equiv.	_____	_____	_____	_____
128 B or equiv.	_____	_____	_____	_____
128 C or equiv.	_____	_____	_____	_____

*Physical Chemistry: Required to have equivalent of courses CHE 107 A and 107 B; or CHE 110 A, B, and C*

	School	Course #	Term/Year	Grade
107 A/110 A or equiv	_____	_____	_____	_____
107 B/110 B or equiv	_____	_____	_____	_____
110 C or equivalent	_____	_____	_____	_____

*Inorganic Chemistry or Biochemistry: Required to have equivalent of course CHE 124 A; or BIS 102 and 103*

	School	Course #	Term/Year	Grade
124 A or equiv.	_____	_____	_____	_____
or BIS 102 or equiv.	_____	_____	_____	_____
BIS 103 or equiv.	_____	_____	_____	_____

**B. Placement Exams**

Required to score above 50% on ACS examinations in physical chemistry and either inorganic or organic chemistry.  
 The General Chemistry exam is required if you would like to qualify for a TA position in the Chemistry Department.

*Physical Chemistry:*

	Overall	Percentages		
Percentile		110 A	110 B	110 C
Exam Date: _____	_____	_____	_____	_____
Exam Date: _____	_____	_____	_____	_____
Notes: _____	_____	_____	_____	_____

*Organic Chemistry:*

	Overall	Percentages		
Percentile		128 A	128 B	128 C
Exam Date: _____	_____	_____	_____	_____
Exam Date: _____	_____	_____	_____	_____
Notes: _____	_____	_____	_____	_____

*Inorganic Chemistry:*

	Overall
Percentile	
Exam Date: _____	_____
Exam Date: _____	_____
Notes: _____	_____

*General Chemistry:*

	Overall
Percentile	
Exam Date: _____	_____
Exam Date: _____	_____
Notes: _____	_____



**Agricultural & Environmental Chemistry Graduate Group**  
**Notes on PhD Degree Requirements.** See the AGC website for additional information.

**A. Prerequisites**

Coursework deficiencies should be made up by the end of the first academic year by earning a "B" or better.

**B. Placement Exams**

You are required to take placement exams in physical chemistry and either inorganic or organic chemistry. Exams should be taken before the beginning of your first Fall quarter.

Record the results of all tests, regardless of score, on the worksheet.

If you fail a required exam (i.e., score below the 50th percentile), talk with your Academic Adviser. There are two options:

- (1) Take the exam again and pass it. Depending on your exam scores, you might want to first take (or audit) one or more of the courses that correspond to the exam material.
- (2) Take the course(s) corresponding to the failed exam material. For example, if you fail the Organic exam by scoring at the 40% percentile, with percentages of 60% for the 128 A questions, 49% for the 128 B questions, and 20% for the 128 C material, then you need to take CHE 128 B and 128 C. In some cases it might not be possible to get a breakdown of an exam's results to specific classes. In this case you need to take all of the courses in the sequence. In some cases results might only correspond to part of the required course sequence (e.g., if results are only reported for 128 A and 128 B). In this case, as long as you passed one of the sections you do not need to take the course corresponding to the course with no reported results (but you do need to take the course corresponding to any section you failed).

If you twice fail the exam for a given subject (e.g., Organic) you must take the course(s) corresponding to the portions you did not pass, as described in (2) above.

Students who would like to qualify for a TA position in the Chemistry Department must pass the General Chemistry exam.

**C. Core Courses**

You must take one course in chemical separations and analysis (ETX 220 and 220L; or CHE 219 (with 219L strongly recommended); or VEN 223

You must also take a course in chemical reaction mechanisms, either CHE 233 or CHE 226.

**D. Electives**

You are required to have at least 19 units of electives; of this number, at least 12 units need to be in graduate coursework.

In addition to the statistics course requirement, you need to take at least 3 Specialization graduate lecture courses.

**E. Seminar**

Every quarter that you are registered you need to satisfactorily complete seminar (AGC 290) when it is offered.

In the first year you need to take 3 additional seminars: (1) Meet the Faculty (Faculty Research Seminar), (2) Mechanics of Presenting a Seminar, and (3) Journal Club.

PhD students must present at 3 Winter Colloquia, beginning in the 2nd year.

**F. Teaching Experience**

PhD students are required to be a teaching assistant in one 3-unit course or the equivalent.

Students who would like to qualify to be a TA in Chemistry must pass the General Chemistry Placement Exam.

**G. Qualifying Examination**

All required coursework (except for seminars) must be completed before taking the Qualifying Exam.

The QE should be taken by the 7th quarter, and no later than the 9th quarter, after admission to the PhD program.

**H. Completion of course/seminar/TA requirements**

Congratulations! You're almost finished!

**I. Exit Seminar**

You are required to give a 50-min exit seminar, preferably (but not necessarily) as part of AGC 290.