ame:		Grad	l Advisor:			Date	:	
BS School:		5.40	Major:			Date Date		
			, _					
Prerequisites (each course must have been	n passed with g	rade of "	B" or better	to fulfill t	this requirem	ient)		
Organic Chemistry: Required to have	equivalent of co	ourses Ci	HE 128 A, B	, and C				
	School		Cours			n/Year	Gra	ade
128 A or equiv.								
128 B or equiv.								
128 C or equiv.								
Physical Chemistry: Req'd to have 2 q	itrs (or 1 sem), e	eguivaleı	nt to CHE 10	07 A and	B: or CHE 1	10 A, B, an	nd C	
,	School	-	Cours			n/Year	Gra	ade
107 A/110 A or equiv								
107 B/110 B or equiv								
110 C or equivalent								
Two Additional Upper-Division Course	s in Chemistry							
	School		Cours	se #	Tern	n/Year	Gra	ade
Course 1								
Course 2								
udents missing a prerequisite class (or earni (1) Take the class at Davis, earning a "B" o (2) Pass the corresponding ACS placement	r better. These t exam by scorin	classes	do not coun 60th percer	it toward	the PhD req		stry Depa	rtment.
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M.S. Plan I (Thesis) Degree Requirements Worksheet (2019 Requirements) Mark one:

Plan of Study:

Name:	Grad.	Advisor:	Date:
D. Como Courson /7 9 unito)			
D. Core Courses (7 - 8 units) C.1. ETX 220 and 220L; or CHE 219 (with 2	219L strongly recom	nmended): or \/FN 223	
	Grade:		Units:
Course:	Grade:	Qtr/Yr:	Units:
C.2. CHE 233 or CHE 226			
Course:	Grade:	Qtr/Yr:	Units:
E. Electives (12 - 17 units, of which no more than	n 7 can be upper d	ivision)	
D.1. Statistics (3 - 5 units)			
One course in Statistics or Experimental De		·	
Course:	Grade	Qtr/Yr:	Units:
D.2. Specialization (3 courses; at least 2	graduate level: at	least 2 w/ strong che	mistry amphasis: 12 - 16 units)
		Grade	Quarter Year Units
	oo ramo	<u> </u>	quarter real office
-			-
. Seminars (7 - 9 units)			
First-year seminar requirements (list quarter and	l year):		
Meet the Faculty:	Presenting	a Seminar/Colloquium:	Journal Club:
Fall Research Seminar (list quarters and years):			
(Required every Fall quarter when registered)	·		
Winter Colloquium Attendance (list years):			
(Required every Winter quarter when registered)	)		
W			
Winter Colloquium Presentation (list years):	D		
(Required in year 2 and, if not graduated, year 3	; Program Coordina	tor has list of presenter	(5)
	Dat	· _	Graduate Advisor Signature
			_
6. File to Advance to Candidacy (typ. by end of 3)	rd qtr)		
I. Unit Requirements			
Total Graduate Units ( <u>not</u> inclu			
		eed at least 30 units):	
Notes:			
	Dat	e	Graduate Advisor Signature
. Completed All Course/Seminar Requirements	for MS		
	<del></del>		
J. Exit Seminar (list qtr and year):			

## **Agricultural & Environmental Chemistry Graduate Group**

Notes on 2019 MS Plan I (Thesis) Degree Requirements. See the AGC website for additional information.

## A. Prerequisites (see page 1 in Degree Requirements)

Coursework deficiencies should be made up by the end of the first academic year.

#### B. Deficiencies and ACS Exams (see pages 1 - 2 in Degree Requirements)

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

If you fail a required exam (i.e., score below the 60th percentile), talk with your Graduate Advisor. 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. Course Guidance Committee (see page 8 in Degree Requirements)

Committee consists of Graduate Advisor and (when identified) Major Professor. Committee should meet in first Fall quarter to develop a

Plan of Study. If MP was not identified at that point, Committee with MP should meet later in year to finalize and sign Plan.

For Plan of Study, check appropriate box in upper right hand corner of 1st page of Worksheet and include signatures on bottom of page.

## D. Core Courses (see pages 2 - 3 in Degree Requirements)

You must take one course in chemical separations and analysis: ETX 220 and 220L; or CHE 219 (with 219L if possible); or VEN 233 (currently unavailable). You must also take a course in chemical reaction mechanisms, either CHE 233 or CHE 226.

#### E. Electives (see page 3 in Degree Requirements)

You are required to have 1 Statistics course (Undergraduate or Graduate; it should go beyond any past coursework in Statistics). See list in Addendum.

You are required to take 3 Specialization Courses, including at least 2 at the Graduate level and at least 2 with a strong chemistry emphasis.

## F. Seminars (see page 3 in Degree Requirements)

Every Fall quarter you are registered you need to satisfactorily complete Research Seminar (AGC 290).

Ever Winter quarter you are registered you need to register for, and pass, Winter Colloquium (AGC 290).

In the first year you need to take 3 additional seminars: (1) Meet the Faculty (Faculty Research Seminar), (2) Mechanics of

Presenting a Seminar (Preparing for Winter Colloquium), and (3) Journal Club.

MS Thesis students must present in the Winter Colloquium in year 2 and, if not yet finished with the degree, in year 3.

# G. Advance to Candidacy (see page 9 in Degree Requirements)

The MS Candidacy application (and associated fee) should be filed by the end of the 3rd quarter (Form can be filed once half of the course requirements are completed and at least one quarter remains before completing all degree requirements.)

# H. Unit Requirements (see page 4 in Degree Requirements)

Only courses with a grade of C or better count toward the unit requirements. Lower division courses do not count.

Courses taken to fulfill any program requirement may not be taken S/U (or P/NP) unless this is their normal grading scheme.

# I. Completion of course/seminar requirements

Congratulations! You're almost finished!

## J. Exit Seminar (see page 10 In Degree Requirements)

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

v. 25 Aug 2020

# Agricultural & Environmental Chemistry Graduate Group Addendum for 2019 MS Plan I (Thesis) Degree Requirements

# **Typical MS Timeline** (from page 11 of Degree Requirements)

	Fall	Winter	Spring	Summer
Year 1	ETX 200 & 220L,	STA 1xx or other	200-level course	Research
	Analysis of toxicants	approved statistics		
	CHE 233, Physical-	200-level course	200-level course	
	Organic Chemistry			
	XXX 299, Research	XXX 299, Research	XXX 299, Research	
	AGC 290-001,	AGC 290-001, Winter	AGC 290-002,	
	Research seminar	Colloquium	Journal Club	
	AGC 290-002, Meet	AGC 290-002,	[Advance to MS	
	the Faculty Seminar	Presenting a Seminar	Candidacy]	
Year 2	XXX 299, Research	XXX 299, Research	XXX 299, Research	Research
	AGC 290-001,	AGC 290-001, Winter		
	Research seminar	Colloquium		
Year 3	XXX 299, Research			
	AGC 290-001,			
	Research seminar			
	Exit Seminar			
	Complete Thesis			

# List of Approved Statistics Options (from page 3 of Degree Requirements)

Requests to take a course not on this list must be approved by your Graduate Advisor. Students should take a course that goes beyond any previous work.

STA100	Applied Statistics for Biological Sciences	4 units
STA101	Advanced Applied Statistics for Biological Sciences	4 units
STA106	Applied Statistical Methods: Analysis of Variance	4 units
STA108	Applied Statistical Methods: Regression Analysis	4 units
STA137	Applied Time Series Analysis	4 units
STA205	Statistical Methods for Research with SAS	4 units
STA223	Biostatistics: Generalized Linear Models	4 units
ECS124	Theory and Practice of Bioinformatics	4 units
PLS205	Experimental Design and Analysis	5 units
PLS206	Applied Multivariate Modeling in Ag & Env Sciences	4 units
VEN215	Sensometrics	3 units

v. 25 Aug 2020