OCTORAL DEGREE REQUIREMENTS

General policies for all University of Oklahoma doctoral programs are available in the Graduate College Bulletin.

DOCTOR of PHILOSOPHY

D170/R101

MAJOR: Chemistry and Biochemistry

CONCENTRATION: Chemistry

DISCIPLINARY EMPHASIS: Organic Chemistry

Program effective Fall 2015

Graduate courses that are a part of Programs of Study in the Department of Chemistry and Biochemistry are denoted as CHEM G5XYZ, where X is the program of study, Y is the sequence of number within that Program of Study (for Y= 0-9), and Z is the number of credit hours as follows:

X =0 Departmental Requirements5 PhysicalY =0-2 Introductory InstructionZ =0-4 Credit Hours1 Analytical6 Chemical Education3-5 Advanced Instruction(modules)

2 Biochemistry 7 Structural Biology 6-7 Special Topics or Electives

3 Inorganic 8 Unused 8 Practicum 4 Organic 9 Interdisciplinary or custom 9 Seminar

COURSEWORK REQUIREMENTS

Department Co	ourses and Seminar Requirements	
Continuous enro	llment in CHEM 5090 Departmental Colloquium is required (0 credit hours).	
☐ CHEM 5011	Fundamentals I	1 hour
☐ CHEM 5021	Fundamentals II	1 hour
☐ CHEM 5080	Laboratory Rotations	2 hours
☐ CHEM 5491	Seminar in Organic Chemistry1	-12 hours
Continuous e	nrollment in 5491 is required after the first semester, up to 12 credits.	
	Total5	-16 hours
□ Focus Area/	Breadth Course Requirements	16+ hours
	f 16 credit hours in letter-graded courses in the CHEM course inventory at the G5XYZ	
	=0-8) including:	
•	Course Requirements—Up to 3 credits of student advisory committee-approved graduate	
	outside the department may count for focus area credit.	
	M 5400 Organic Chemistry I: Mechanisms and Reactivity	2± hours
CHE.	WI 3400 Organic Chemistry I. Wechanisms and Reactivity	. 2+ 110013
☐ CHE	M 5430 Organic Chemistry II: Reactions and Synthesis	.2+ hours
☐ Min	imum 4 hours from:	
	M 5450 Structural Characterization of Organic Compounds, <u>and/or</u>	
	M 5460 Special Topics in Chemical Reactivity and Physical Organic Chemistry, and/or	
	M 5470 Special Topics in Bioorganic and Specialized Organic Compounds, and/or	_
	M 5480 Practicum in Organic Chemistry	.4+ hours
	rse Requirement EUNIVERSITY OF OKLAHOMA	
☐ Min	imum 4 hours CHEM 5XY0 (X≠0 or 4, Y=0-8)	.4+ hours
	GRADHATE COLLEGE	
□ Directed Stu	dies/Dissertation Research	2± hours
	num CHEM 6980 Research for Doctoral Dissertation.	.ZT HOUIS
	ts CHEM 5990 Independent Studies. Up to 6 credits CHEM 5960 Directed Readings in Chemistry.	
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