DOCTORAL 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: Analytical 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	ollment in CHEM 5090 Departmental Colloquium is required (0 credit hours).	
☐ CHEM 5011	Fundamentals I	hour
☐ CHEM 5021	Fundamentals II	hour
☐ CHEM 5080	Laboratory Rotations2 h	ours
☐ CHEM 5191	Seminar in Analytical Chemistry1-12 h	ours
Continuous er	nrollment in 5191 is required after the first semester, up to 12 credits.	
	Total5-16 h	ours
□ Focus Area/I	Breadth Course Requirements16+ h	ours
	of 16 credit hours in letter-graded courses in the CHEM course inventory at the G5XYZ	Ours
	(=0-8) including:	
, ,		
	Course Requirements—Up to 3 credits of student advisory committee-approved graduate outside the department may count for focus area credit.	
	imum 6 hours from:	=
	M 5100 Instrumental Methods of Analysis, <u>and/or</u> M 5110 Spectroscopic Chemical Analysis, <u>and/or</u>	
	M 5120 Separation Methods6+ h	ourc
	EGT = 1000	louis
	imum 4 hours from:	
	M 5160 Special Topics in Analytical Chemistry: Instrumentation, and/or	
	M 5170 Special Topics in Analytical Chemistry: Methodology, <u>and/or</u>	
CHEI	M 5180 Practicum in Analytical Chemistry4+ h	ours
Breadth Coui	rse Requirement	
☐ Mini	imum 4 hours CHEM 5XY0 (X≠0 or 1, Y=0-8)4+ h	ours
	GRADUATE CULLEGE	
☐ Directed Stu	udies/Dissertation Research2+ h	nurs
	mum CHEM 6980 Research for Doctoral Dissertation.	ouis
	its CHEM 5990 Independent Studies. Up to 6 credits CHEM 5960 Directed Readings in Chemistry.	
	,	
	an h	ours
- IVIME		UUIS