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: Structural Biology

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:

O Departmental Requirements 5 Physical **Y** = 0-2 Introductory Instruction **Z** = 0-4 Credit Hours 1 Analytical 6 Chemical Education 3-5 Advanced Instruction (modules)

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

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

COURSEWORK	(REQUIREMENTS	
Continuous enrol	ourses and Seminar Requirements Illment in CHEM 5090 Departmental Colloquium is required (0 credit hours).	
	Fundamentals I	
	Fundamentals II	
	Laboratory Rotations	2 hours
	Seminar in Biochemistry, <u>or</u>	
CHEM 5791	Seminar in Structural Biology	1-12 hours
Continuous en	nrollment in 5291/5791 is required after the first semester, up to 12 credits.	
	Total	5-16 hours
☐ Focus Area/E	Breadth Course Requirements	16+ hours
	f 16 credit hours in letter-graded courses in the CHEM course inventory at th $(=0-8)$ including:	e G5XYZ
coursework c	Course Requirements—Up to 3 credits of student advisory committee-approved soutside the department may count for focus area credit.	
☐ CHEN	M 5210 Molecular Biology	2+ hours
CHEN CHEN	imum 7 hours from: M 5730 Macromolecular Crystallography, <u>and/or</u> M 5740 Biological NMR Spectroscopy, <u>and/or</u> M 5750 Macromolecular Structure and Function, <u>and/or</u>	
CHEN	M 5780 Practicum in Structural Biology	7+ hours
☐ Miniı	imum 3 hours CHEM 5XY0 (Y=6 or 7)	3+ hours
Breadth Cour	rse Requirement	
	imum 4 hours CHEM 5XY0 (X≠0 or 7, Y=0-8)	4+ hours
☐ Directed Stud	idies/Dissertation Research	2+ hours
	num CHEM 6980 Research for Doctoral Dissertation.	
	ts CHEM 5990 Independent Studies. Up to 6 credits CHEM 5960 Directed Readings in Che	mistry.
		00 hours