

**New Program: Accelerated BS-PhD degree program - Proposal**

Required courses:	Credit hours
<b>Chemistry requirements</b> CHEM 100, 124, 125, 237, 239, 240, 247, 321, 343, 344, 415, 416, 434, 451	<b>46</b>
<b>Biology Requirements</b> BIOL 107 or 115; BIOL 401	<b>6</b>
<b>Mathematics requirements</b> MATH 151, 152, 251, 252	<b>18</b>
<b>Physics requirements</b> PHYS 123, 221	<b>8</b>
<b>Computer Science requirements</b> CS 105	<b>2</b>
<b>Humanities and Social Science Requirements</b>	<b>21</b>
<b>Interprofessional Projects</b>	<b>6</b>
<b>PhD CHEMISTRY Requirements</b> Chemistry core courses (12), CHEM 584 (1), CHEM 585 (2) CHEM 684 (1), CHEM 685 (2)	<b>18</b>
<b>Electives</b> To be determined in consultation with academic advisor	<b>14-26</b>
Thesis Research CHEM 691	<b>24-36</b>
<b>TOTAL</b>	<b>175</b>

**\*Shared courses include (24 credit hours):**

- a) 6 credit hours of "Chemistry Electives" at the 400+ level found in the standard Chemistry BS degree program ⇔ 6 out of 12 credit hours of "Chemistry Core Courses" found in the PhD degree program.
- b) 9 credit hours of "Free Electives" in the standard Chemistry BS degree program ⇔ 9 out of 18-30 credit hours of "Elective Courses" found in the PhD degree program.
- c) CHEM 434, CHEM 416 (7 credit hours) "Chemistry Requirements" found in the standard Chemistry BS degree program ⇔ CHEM 534, CHEM 526 for 7 out of 18-30 credit hours of "Elective Courses" found in the PhD degree program.
- d) Two credit hours of CHEM 485 in BS ⇔ Two credit hours of CHEM 585 in PhD program.

## Degree/Program Concordance

B.S. Chemistry			PhD. Chemistry			Accelerated Program			Integration (*)
Chemistry	100	2				Chemistry	100	2	
	124	4					124	4	
	125	4					125	4	
	237	4					237	4	
	239	3					239	3	
	240	2					240	2	
	247	3					247	3	
	321	4					321	4	
	343	3					343	3	
	344	4					344	4	
	415	3					415	3	
	416	3	Elective	526	3	Or 526	416	3	c)
	434	4	Elective	534	4	Or 534	434	4	c)
	451	3					451	3	
	485	1		585	1	Or 585	485	1	d)
	485	1		585	1	Or 585	485	1	d)
Biology	107	3				Biology	107	3	
	401	3					401	3	
Math	151	5				Math	151	5	
	152	5					152	5	
	251	4					251	4	
	252	4					252	4	
Physics	123	4				Physics	123	4	
	221	4					221	4	
CS	105	2				CS	105	2	
H/SS		21				H/SS		21	
IPRO		6				IPRO		6	
Free Electives		3	Electives		3	Electives		14-26	b)
		3			3				b)
		3			3				b)
		3							
			More electives		2-14				
CHEM Electives		3	Core courses		3	Core courses		3	a)
		3			3			3	a)
					3			3	
					3			3	
				584	1		584	1	
				684	1		684	1	
				685	1		685	1	
				685	1		685	1	
			Thesis research		24-36	Thesis research		24-36	
Total		127			72			175	