

**MILLIKIN UNIVERSITY**  
**BS Chemistry: Research Emphasis - 8 Semester Plan**

<b>Semester #1</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>	<b>Semester #2</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>
IN 140: University Seminar		3		Literature		3	
IN 180: University Writing		3		CH 122: General Chemistry II		3	
CH 121: General Chemistry I		3		CH 152: General Chemistry Laboratory II		1	
CH 151: General Chemistry Laboratory I		1		Mathematics		4	
Mathematics (determined by placement)		4		CO 200: Public Speaking		3	
International Cultures and Structures I		3		International Cultures and Structures II		3	
<b>Semester Total</b>		<b>17</b>		<b>Semester Total</b>		<b>17</b>	
<b>Cumulative Total</b>		<b>17</b>		<b>Cumulative Total</b>		<b>34</b>	
<b>Semester #3</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>	<b>Semester #4</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>
CH 232: Analytical Chemistry		3		CH 302: Organic Chemistry II		3	
CH 253: Analytical Chemistry Laboratory		1		CH 252: Organic Chemistry Laboratory II		1	
CH 301: Organic Chemistry I		3		CH 306: Descriptive Inorganic Chemistry		3	
CH 251: Organic Chemistry Laboratory I		1		CH 256: Inorganic Chemistry Laboratory		1	
IN 250: U.S. Cultural Studies		3		IN 251: U.S. Structural Studies		3	
Creative Arts		3		IN 280: Writing in the Disciplines		3	
Historical Studies		3		Elective		3	
<b>Semester Total</b>		<b>17</b>		<b>Semester Total</b>		<b>17</b>	
<b>Cumulative Total</b>		<b>51</b>		<b>Cumulative Total</b>		<b>68</b>	
<b>Semester #5</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>	<b>Semester #6</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>
CH 254: Introduction to Research		1		CH 391: Undergraduate Research		1	
CH 406: Advanced Inorganic Chemistry (even years) or Elective		3		PY 152/172: University Physics II with lab		4	
PY 151/171: University Physics I with lab		4		Electives		9	
IN 350: Global Studies		3					
Electives		6					
<b>Semester Total</b>		<b>17</b>		<b>Semester Total</b>		<b>14</b>	
<b>Cumulative Total</b>		<b>85</b>		<b>Cumulative Total</b>		<b>99</b>	
<b>Semester #7</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>	<b>Semester #8</b>	<b>Term: _____</b>	<b>Hours</b>	<b>Spg/Fall/Evry</b>
CH 303: Physical Chemistry I ( <b>must complete MA 240 prior</b> )		3		CH 304: Physical Chemistry II		3	
CH 351: Physical Chemistry Laboratory I		1		CH 353: Physical Chemistry Laboratory II		1	
CH 391: Undergraduate Research		1		CH 391: Undergraduate Research		1	
CH 406: Advanced Inorganic Chemistry (even years) or Elective		3		CH 420: Instrumental Analysis		3	
Electives		9		CH 352: Instrumental Analysis Laboratory		1	
				CH 482: Seminar		1	
				Elective		6	
<b>Semester Total</b>		<b>17</b>		<b>Semester Total</b>		<b>16</b>	
<b>Cumulative Total</b>		<b>116</b>		<b>Cumulative Total</b>		<b>132</b>	

**NOTES:**

- The schedule above provides a template. Schedules will vary by student. Summer courses may be taken at Millikin or another institution (course approved through Registrar)
- Undergraduate graduation hour requirements: 124 credits
- To be considered a full time student you must enroll in a minimum of 12 credit hours per semester.
- If taking Advanced Placement courses in high school or considering dual enrollment in high school/community college courses, please make sure you speak with a faculty advisor or Registrar's Office at Millikin prior to your selection/enrollment.