

# B.S. Pharmaceutical Chemistry Degree

## A Four Year Outline

FALL	SPRING
<b>FIRST YEAR</b>	
CH1110 University Chemistry I AND CH1111 University Chemistry Lab I OR CH1112 University Chem-Studio Lab I	CH1120 University Chemistry II OR CH1122 University Chem-Studio Lab II
4	4
1	5
5	4
1	1
1	3
1	4
4	
3	
<b>TOTAL</b>	<b>TOTAL</b>
<b>14</b>	<b>16-17</b>
<b>SECOND YEAR</b>	
CH2410 Organic Chemistry I CH2411 Organic Chemistry Lab I BL1040 Principles of Biology PH2200 University Physics II – E&M UN2002 Institutions General Education Distribution	CH2420 Organic Chemistry II CH2421 Organic Chemistry Lab II CS1121 Intro Computer Science I MA3160 Multivariable Calculus MA2320 Elementary Linear Algebra UN2001 Revisions
3	3
1	2
4	3
3	4
3	2
3	3
<b>TOTAL</b>	<b>TOTAL</b>
<b>17</b>	<b>17</b>
<b>THIRD YEAR</b>	
CH3510 Physical Chemistry I CH3511 Physical Chemistry Lab I CH4710 Biomolecular Chemistry I *Required Elective General Education Distribution	CH3520 Physical Chemistry II CH3521 Physical Chemistry Lab II CH4110 Pharmaceutical Chemistry I CH4222 Intro Quant & Instrumental Analysis CH4720 Biomolecular Chemistry II
3	3
2	2
3	3
3	5
6	3
<b>TOTAL</b>	<b>TOTAL</b>
<b>17</b>	<b>16</b>
<b>FOURTH YEAR</b>	
CH4120 Pharmaceutical Chemistry II MA2720 Statistical Methods Free Electives General Education Distribution	CH4412 Spectroscopy of Organic Chemistry CH4910 Senior Seminar II BL4820 Biochemical Techniques BL4860 Toxicology Free Electives
3	3
4	1
3	2
6	3
	5-6
<b>TOTAL</b>	<b>TOTAL</b>
<b>16</b>	<b>15</b>
<b>GRAND TOTAL = 128 Credits</b>	

\* Required Elective must be chosen from the specified list. If CH4990 (undergraduate research) is chosen, it must be taken for two semesters for a minimum of 6 credits.

**NOTE: 3 Units of co-curricular activities are required (P.E. courses are taught in 0.5 unit classes. Thus, 6 of these are needed for 3 units). It is highly recommended that students take at least one P.E. class during each semester of their first year, if possible.**