

# CHEMISTRY MAJOR

## Four Year Plan

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
CHEM 125	Introduction to Chemical Structure and Properties	4
INTG 100	Foundations	4
LANG		4
CHEM 201	Purification and Separation Lab I	1
INTG 105	College Success	1
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
CHEM 250	Reactions of Nucleophiles and Electrophiles (Reactivity 1)	4
XXXX XXX		4
LANG		4
CHEM 202	Purification and Chromatography Lab II	1
<b>Hours</b>		<b>13</b>
<b>Second Year</b>		
<b>Fall</b>		
CHEM 251	Intermediate Reactions of Nucleophiles and Electrophiles (Reactivity 2)	4
THEO 1XX		4
PHYS 105 or PHYS 191	Physics for the Life Sciences I or Foundations of Physics I	4
LANG		4
CHEM 203	Synthesis Lab	1
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CHEM 255	Macroscopic Chemical Analysis	4
PHYS 106 or PHYS 200	Physics for the Life Sciences II or Foundations of Physics II	4
MATH 119	Calculus I	4
CHEM 205	Chemical Measurement Lab	1
CHEM 349	Chemistry in Experience and Practice	1
<b>Hours</b>		<b>14</b>
<b>Third Year</b>		
<b>Fall</b>		
CHEM 315	Advanced Reactions (Reactivity 3)	4
XXXX XXX		4
XXXX XXX		4
CHEM 304	Analytical Method Development and Validation Laboratory	1
CHEM 3XX		2
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 3XX		2
CHEM 3XX		2
XXXX XXX		4
XXXX XXX		4
CHEM 306	Advanced Laboratory Topics	1
<b>Hours</b>		<b>13</b>
<b>Fourth Year</b>		
<b>Fall</b>		
XXXX XXX		4
XXXX XXX		4
XXXX XXX		4
CHEM 3XX		2
CHEM 3XX		2
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
INTG 300	Learning Integrations	4
CHEM 360	Junior/Senior Capstone Research	2
CHEM XXX		0
XXXX XXX		4
CHEM 3XX		2
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>114</b>