

### Example of four-year plans

Chemistry advisors thought it would be beneficial to give students an idea of what a student's course schedule might look like in order to obtain a degree in chemistry in four years.

Here is an example of what a **BS in Chemistry** plan might look like:

	Fall	Winter	Spring
<b>1st year</b>	Chem 181 4 Chem 181 Lab 1 Math 154 5 Univ 101 1 Gen Ed. 3-6	Chem 182 4 Chem 182 Lab 1 Math 172 5 Gen Ed. 3-6	Chem 183 4 Chem 183 Lab 1 Math 173 5 Gen Ed. 3-7
<b>2nd year</b>	Chem 361 3 Chem 332 3 Chem 332 Lab 2 Phys 181 4 Phys 181 Lab 1 Gen Ed. 3-4	Chem 362 3 Chem 361 Lab 2 Phys 182 4 Phys 182 Lab 1 Gen Ed. 3-7	Chem 363 3 Chem 363 Lab 3 Math 272 5 Phys 183 4 Phys 183 Lab 1
<b>3rd year</b>	Chem 431 3 Chem 431 Lab 2 Chem 381 5	Chem 452 3 Chem 452 Lab 2 Chem 382 3 Chem 382 Lab 2 Chem 350 3	Chem 383 3 Chem 383 Lab 2 Chem Electives
<b>4th year</b>	Chem electives	Chem electives	Chem 488 1 Chem electives

**Important Notes:** This plan assumes students enter the program qualified to take Math 154; general education (Gen Ed) requirements must be satisfied by the quarter in which the student completes 75 credits; Chem 388 may be taken any time after the student has amassed 25 credits in chemistry; students who elect to serve as teaching assistant will be required to take Chem 492; Chem 361 lab, Chem 431 lab and Chem 388 may be taken fall or winter quarter; Chem 488 is typically offered winter and spring, and is ideally taken by a student during their final quarter; "trailer" sequence is in place for the Chem 180-series; all other classes are only offered during the quarters indicated on the schedule.

Here is an example of what a **BA in Chemistry Teaching** plan might look like:

	Fall	Winter	Spring
<b>1st year</b>	Chem 181 4 Chem 181 Lab 1 Math 172 5 Eng 101 4 Univ 101 1	Chem 182 4 Chem 182 Lab 1 Math 173 5 Eng 102 4 CS 101 or IT 101 3-4	Chem 183 4 Chem 183 Lab 1 Math 272 5 CS 105 or Math 130 or Phil 201 4-5
<b>2nd year</b>	Chem 361 3 Chem 361 Lab 2 Phys 181 4 Phys 181 Lab 1 <i>Chem 332 and</i> 3 <i>Chem 332 Lab OR 2</i> <i>Gen Ed Hum</i> 4-5	Chem 362 3 Phys 182 4 Phys 182 Lab 1 Gen Ed SBS 4-5 Gen Ed NS 4-5	Phys 183 4 Phys 183 Lab 1 <i>Chem 345 OR</i> 5 <i>Gen Ed Hum</i> 4-5 EFC210 1
<b>3rd year</b>	Chem 381 5 Chem 431 3 Chem 431 Lab 2 EFC 310 3 PSY 314 4	Chem 350 3 EFC 315 3 EFC 320 3 Gen Ed NS 4-5	Chem 492 2 EFC 330 2 EFC 340 3 SCED 401 5 Gen Ed Hum 4-5
<b>4th year</b>	SCED 324 3 EDBL 401 3 EFC 440 3 EDBL 401 3 Gen Ed Hum 4-5	SCED 487 2 SCED 325 3 EDSE 302 3 Gen Ed SBS 4-5 Gen Ed SBS 4-5	EFC 480 16

**Important Notes:** The suggested schedule assumes two years of same foreign language in high school and qualification for Math 172; students do have the option in this major of taking the Phys 111 series; if Chem 332 lecture and lab are taken, then take a Gen Ed (A&H) in place of Chem 345 or vice versa.

Endorsable minor options include among others: Biology, Broad Area, Earth Science, Mathematics, Middle Level Math/Science and Physics. Candidates must pass the WEST-E exam in each area for endorsement.

<b>BS Chemistry Biochemistry Specialization (ACS) Example 4-Year Plan</b>							
<b>Year 1</b>		<b>Year 2</b>		<b>Year 3</b>		<b>Year 4</b>	
Fall Quarter	Units	Fall Quarter	Units	Fall Quarter	Units	Fall Quarter	Units
Chem 181	4	Chem 332	3	CHEM 431	3	Chem 381	5
Chem181 L	1	Chem 332 L	2	CHEM 431L	2	Gen Ed	4
Math 172	5	Chem 361	3	Phys 181 or 111	4	Gen Ed	4
BIOL 181 & L	5	ENG 102	4	Phys 181L or 111L	1		
UNIV 101	1	Gen Ed	4	Gen Ed	4		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>	<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>
<u>Winter quarter</u>		<u>Winter Quarter</u>		<u>Winter Quarter</u>		<u>Winter Quarter</u>	
Chem 182	4	Chem 362	3	CHEM 432	3	Chem 382	3
Chem 182L	1	Chem 361 L	2	CHEM 350	3	Chem 382 L	2
BIOL 182 + L	5	IT 101 or CS 101	3	Phys182 or 112	4	Elective	5
Math 173	5	CS 105 *	5	Phys 182L or 112L	1	Gen Ed	4
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>13</b>	<b>Total</b>	<b>14</b>	<b>Total</b>	<b>14</b>
<u>Spring Quarter</u>		<u>Spring Quarter</u>		<u>Spring Quarter</u>		<u>Spring Quarter</u>	
Chem 183	4	Chem 363	3	CHEM 433	3	CHEM 488	1
Chem 183L	1	Chem 363L	2	CHEM 433L	2	Gen Ed	5
ENG 101	4	BIOL 321 Genetics	5	Phys 183 or 113	4		
BIOL 183 & L	5	Math 272	5	Phys 183L or 113L	1		
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14</b>	<b>Total</b>	<b>6</b>
<b>Year Total</b>	<b>45</b>	<b>Year Total</b>	<b>44</b>	<b>Year Total</b>	<b>42</b>	<b>Year Total</b>	<b>33</b>
Degree Total 164		Alternate Choices *		* MATH 102, 130, PHIL 201, or CS 105		Only need 8 Gen Ed because CHEM 181 & L satisfies one	