

**B.S. in Chemistry – Pre-health Science Track**
**AY 2021-2022**

	First Semester		Second Semester	
<b>1<sup>st</sup> Year</b>	CHEM 1211K (4) MATH 1551 (2) ENGL 1101 (3) GT 1000 (1) BIOS 1107 (3) BIOS 1107L (1) <i>Sub-Total (14)</i>	Chemical Principles I Differential Calculus English Comp. I Freshman Seminar Biological Principles Biological Principles Lab	CHEM 1212K (4) CHEM 2601 (1) MATH 1552 (4) ENGL 1102 (3) BIOS 1108 (3) BIOS 1108L (1) <i>Sub-Total (16)</i>	Chemical Principles II Prof. Skills for Chemists Integral Calculus English Comp. II Organismal Biology Organismal Biology Lab
<b>2<sup>nd</sup> Year</b>	CHEM 2214 (4) CHEM 2311 (3) MATH 1553 (2) PHYS 2211 (4) Pre-Health Elective* (3) <i>Sub-Total (16)</i>	Quantitative Analysis Organic Chemistry I Intro. Linear Algebra Intro. to Physics I	CHEM 2312** (3) CHEM 2380 (2) PHYS 2212 (4) CS 1301*** (3) Pre-Health Elective* (3) <i>Sub-Total (15)</i>	Organic Chemistry II Synthesis Lab I Intro. to Physics II CS Requirement
<b>3<sup>rd</sup> Year</b>	CHEM 3411 (3) CHEM 3216 (3) CHEM 3216L (2) APPH 10XX*** (2) Pre-Health Elective* (3) Free Elective (3) <i>Sub-Total (16)</i>	Physical Chemistry I Analytical Chemistry Analytical Chem. Lab Wellness Requirement	CHEM 3412 (3) Lab Elective***** (2) Pre-Health Elective* (3) Core Elective*** (3) Core Elective*** (3) <i>Sub-Total (14)</i>	Physical Chemistry II
<b>4<sup>th</sup> Year</b>	CHEM 3111 (3) Lab Elective***** (3) Tech. Elective**** (3) Core Elective*** (3) Core Elective*** (3) <i>Sub-Total (15)</i>	Inorganic Chemistry	BCHM Elective***** (3) Core Elective*** (3) Core Elective*** (3) Free Elective (7) <i>Sub-total (16)</i>	

**Note:** 39 credit hours of 3XXX/4XXX level coursework is required to graduate.

Only Free Electives can be taken as Pass/Fail.

Maximum 6 hours of CHEM 2699 and 12 hours of CHEM 4699.

The last 36 hours must be taken in residence and may not be transferred in.

* Pre-Health Electives:	A minimum of 15 credit hours of Pre-Health electives are required. A list of current Pre-Health electives can be found at <a href="http://catalog.gatech.edu">catalog.gatech.edu</a> .
** CHEM 2312:	CHEM 2313, Bioorganic Chemistry II, can be substituted for CHEM 2312, Organic Chemistry II.
*** Core Electives :	APPH 1040 or 1050 or 1060 (2) CS 1301 (3) Humanities electives (6 hours required) Social Sciences electives (9 hours required) History/constitution requirement: HIST 2111 (3), HIST 2112 (3), PUBP 3000 (3), INTA 1200 (3), or POL 1101 (3) (Credit not allowed for both INTA 1200 and POL 1101)
**** Tech. Elective:	A minimum of 3 credit hours of 3XXX/4XXX level coursework in Science, Engineering, and Computing. 3 credit hours of 4XXX level undergraduate research can be used toward technical electives. MATH 2403 or MATH 2552 may also be used for a technical elective.
***** Lab Elective:	Two of the following three lab courses are required: CHEM 3380 (3 credits), CHEM 3481 (2 credits) and Undergraduate Research Experience. If Undergraduate Research is used, a minimum of 2 credit hours of CHEM 4699 (Undergraduate Resesarch) or CHEM 4695 (Undergraduate Internship) is required.
***** BCHM Elective:	CHEM 3511, Survey of Biochemistry, or CHEM 4511, Biochemistry I

