

B.S. Chemistry, Biochemistry Emphasis  
4-year Plan Sheet  
(Students who begin in 2017-2018)

**Check degree audit for Christian Service requirements.**

**Freshman Year**

<u>Fall Semester</u>	<u>Hours</u>	<u>Winter Semester</u>	<u>Hours</u>
_____ CHEM 151: Gen. Chem. I	4	_____ CHEM 152: Gen. Chem. II	4
_____ BIOL 151: Gen. Biol. I	4	_____ BIOL 152: Gen. Biol. II	4
_____ ENGL 101	3	_____ MATH 191: Calculus I <sup>1</sup>	4
_____ NOND 101: Southern Conn.	1	_____ ENGL 102	3
_____ PEAC 125: Fitness for Coll. Life	1	_____ CPTE 100: Comp. Conc. (IN-5)	<u>1</u>
_____ RELB 125 or RELT 177 (R-1)	<u>3</u>		
	16		16

**Sophomore Year**

<u>Fall Semester</u>	<u>Hours</u>	<u>Winter Semester</u>	<u>Hours</u>
_____ CHEM 311: Org. Chem. I	4	_____ CHEM 312: Org. Chem. II	4
_____ PHYS 211: Gen. Physics I <sup>2</sup>	3	_____ CHEM 315: Quant. Analysis	4
_____ PHYS 213: Gen. Physics I Lab <sup>2</sup>	1	_____ PHYS 212: Gen. Physics II <sup>2</sup>	3
_____ COMM 135: Comm. Pub. Speak.	3	_____ PHYS 214: Gen. Physics II Lab <sup>2</sup>	1
_____ Historical Perspectives (IN-6)	<u>3</u>	_____ RELT 138, 225, or 255 (R-2)	3
	14	_____ Physical Activity (P-1b)	<u>1</u>
			16

**Junior Year**

<u>Fall Semester</u>	<u>Hours</u>	<u>Winter Semester</u>	<u>Hours</u>
_____ CHEM 361: Biochemistry I	4	_____ CHEM 362: Biochemistry II	3
_____ BIOL 311 Genetics	4	_____ CHEM 363: Biochemistry Lab	1
_____ MATH 215: Statistics (IN-4)	3	_____ CHEM 385: Chem. Seminar	1
_____ PSYC 128 or SOCI 125 (IN-8)	3	_____ Bibl. Stud. (not RELB 125) (R-3)	3
_____ Physical Activity (P-1b)	<u>1</u>	_____ Aesthetic Analysis (IN-10)	3
	15	_____ Electives	<u>5</u>
			16

**Senior Year**

<u>Fall Semester</u>	<u>Hours</u>	<u>Winter Semester</u>	<u>Hours</u>
_____ CHEM 411: Phys. Chem. I (W)	4	_____ CHEM 425: Adv. Org. Chem. <sup>4</sup>	3
_____ CHEM 496: Intro. Research (W)	1	_____ MATH 192: Calculus II <sup>5</sup>	4
_____ CHEM 498: Research in Chem.	1	_____ PEAC 425: Fit for Hire	1
_____ BIOL 340, 412, or 418 <sup>3</sup>	3-4	_____ U.D. Religion (W) (R-4)	3
_____ Steward., Bus. & Econ. (IN-9)	3	_____ Electives	<u>5</u>
_____ Electives	<u>3</u>		
	15-16		16

<sup>1</sup> MATH 191 (Calculus I) may be taken if you have already taken Precalculus Algebra and Trigonometry at the college level or have a math ACT score of 28 or higher. Talk to your advisor regarding the math course for this semester.

<sup>2</sup>PHYS 221-224 may be substituted.

<sup>3</sup>One or more of these courses is often taught during the **winter** semester; check the course schedule and check with your adviser.

<sup>4</sup>CHEM 425 would count as your chemistry elective; this may be replaced with a different upper-division chemistry course offered during your junior or senior year such as CHEM 321, 415, or 435.

<sup>5</sup>To meet the recommendations of the American Society for Biochemistry and Molecular Biology and the American Chemical Society, MATH 192 must be taken. However, MATH 215 (Statistics) is sufficient to fulfill the requirements for the degree.