

# Huntington University

## Guide to Typical Programs, 2019-2023

# Chemistry (B.S. Degree)

## Advisor: Dr. Nalliah

Note that this is a "Typical Program." Actual programs will vary. See the Academic Catalog for official details.

Fall 2019	J-Term 2020	Spring 2020	Summer 2020
CH 161: <u>Principles of Chemistry I</u> 4 MA 171: <u>Calculus I</u> <sup>1</sup> 4 HS 115: Hist Persp on Cult & Civ I 3 EN 121: Academic Writing & Research 3 EX 101: Wellness for Life 2 <b>total 16</b>	Required J-Term 2 <b>total 2</b>	CH 162: <u>Principles of Chemistry II</u> 4 MA 172: <u>Calculus II</u> <sup>1</sup> 4 BI 161: Cell Biology <sup>2</sup> 4 HS 116: Hist Persp on Cult & Civ II 3 <b>total 15</b>	<b>total</b>
Fall 2020	J-Term 2021	Spring 2021	Summer 2021
CH 263: <u>Organic Chemistry I</u> 4 MA 273: <u>Calculus III</u> 4 PH 211: <u>Principles of Physics I</u> 4 EN 151: Perspectives on Literature 3 <b>total 15</b>	Required J-Term 2 <b>total 2</b>	CH 264: <u>Organic Chemistry II</u> 4 PH 212: <u>Principles of Physics II</u> 4 BR 111: Biblical History and Literature 3 115: Intro to AR/DM/MU/TH 2 Core Curriculum Social Sci 3 <b>total 16</b>	<b>total</b>
Fall 2021	J-Term 2022	Spring 2022	Summer 2022
* CH 331: <u>Quantitative Analysis</u> 4 CH 411: <u>Biochemistry</u> <sup>2</sup> 3 * CH 451: <u>Seminar in Chemistry</u> 1 CO 215: Public Speaking 3 Core Curriculum Social Sci 3 <b>total 14</b>	Required J-Term 2 <b>total 2</b>	* CH 333: <u>Instrumental Analysis</u> 4 * MA 371: <u>Differential Equations</u> 3 PL____: Intro to Philosophy/Ethics 3 Electives 6 <b>total 16</b>	CH 491: <u>Undergraduate Research</u> <sup>3</sup> 1-2 <b>total 1-2</b>
Fall 2022	J-Term 2023	Spring 2023	Summer 2023
* CH 361: <u>Physical Chemistry I</u> 4 * CH 441: <u>Adv Inorganic Chemistry</u> 3 MI 285: Understand the Christian Faith 3 Creative Studio Arts 1 Elective [300+ level] <sup>4</sup> 3 <b>total 14</b>	<b>total</b>	* CH 371: <u>Physical Chemistry II</u> 4 * PH 261: <u>Analog and Digital Electronics</u> 2 BR____: Bible Elective [300+ level] 3 Elective [300+ level] <sup>4</sup> 3 Elective 3 <b>total 15</b>	<b>total</b>

### NOTES:

1. Chemistry majors not yet placing into MA 171/172 should take MA 141 in the Spring of the freshman year (*see mathematics placement policy in Catalog under Academic Information*).
2. BI 161 Cell Biology is recommended as an elective. Students may choose to take BI 161 in the Spring of the Freshman, Sophomore, or Junior year depending on the need for early fulfillment of prerequisites for other Biology courses. BI 161 is recommended before CH 411 Biochemistry.
3. Chemistry majors must complete chemical research for graduation. CH 491 should be taken during the summer before the student's senior year. It is imperative that the student apply to summer programs in the winter of the junior year at the latest. Application in the sophomore year is encouraged.
4. Majors must be careful in selection of electives so that a sufficient number of upper division courses are taken. A minimum of 36 hours of 300+ courses is required for graduation.

\*Indicates alternating year course.

Underlining indicates required for major.