

# Sample Four-year Plan for Biochemistry

Note: The four-year plan is for example purposes only. Students should refer to the catalog in effect upon their entry to Viterbo for more specifics on requirements of the core curriculum, major, and degree. Some courses have certain semester rotations that may or may not be reflected below. Your advisor will assist you with actual registration planning to accommodate these rotations. For complete information, see the current undergraduate catalog.

Fall Semester – First Year		Spring Semester – First Year	
ENGL 103/104/105 – CCF Written Communication	3–4	ENGL 104/105/195 – CCF Written Communication	3–4
BIOL 160/161 – General Biology (CCWOT Natural Science)	4	VUSM FVT – Franciscan Values and Traditions	3
CHEM 112 – Science Success	1	BIOL 160/161 – General Biology	4
CHEM 120 – General Chemistry I	4	CHEM 121 – General Chemistry II	4
MATH 220 – Calculus I <sup>1</sup> (CCF Quantitative Literacy)	4	MATH 221/230 – Calculus II/Statistics <sup>1</sup>	4
<b>TOTAL CREDITS</b>	<b>16–17</b>	<b>TOTAL CREDITS</b>	<b>18–19</b>
Fall Semester – Second Year		Spring Semester – Second Year	
CCWOT (Recommend Historical Inquiry)	3	CCF Written Communication II (Recommend BIOL 251)	4
BIOL 250 – Molecular and Cellular Basis of Life (CCF Oral Communication)	4	CCWOT (Recommend Theological Inquiry)	3
CHEM 240 – Organic Chemistry I	4	VUSM LDW – Living in a Diverse World	3
PHYS 260 – University Physics I	3	PHYS 261 – University Physics II	3
PHYS 270 – Introductory Physics Lab I	1	PHYS 271 – Introductory Physics Lab II	1
<b>TOTAL CREDITS</b>	<b>15</b>	<b>TOTAL CREDITS</b>	<b>14</b>
Fall Semester – Third Year		Spring Semester – Third Year	
VUSM SCG – Serving the Common Good	3	CCWOT (Recommend Social Sciences)	3
BIOL 370 – Biochemistry	4	BIOL/CHEM 489/498 – Field Experience or Research	1
CHEM 360 – Physical Chemistry I	4	CHEM 475 – Advanced Biochemistry	4
CHEM 397 – Introduction to Research	3	BIOL/CHEM Elective <sup>3</sup>	4
General Elective/Minor <sup>2</sup>	3	General Elective/Minor <sup>2</sup>	3
<b>TOTAL CREDITS</b>	<b>17</b>	<b>TOTAL CREDITS</b>	<b>15</b>
Fall Semester – Fourth Year		Spring Semester – Fourth Year	
CCWOT (Recommend Artistic Engagement)	3	CCWOT (Recommend Integrating Faith and Practice)	3
CCWOT (Recommend Literary Analysis)	3	CCWOT (Recommend Philosophical Inquiry)	3
VUSM TEL – The Ethical Life	3	BIOL/CHEM 499 – Senior Seminar	1
BIOL/CHEM Elective <sup>3</sup>	4	General Elective/Minor <sup>2</sup>	3
BIOL/CHEM 489/498 – Field Experience or Research	1	General Elective/Minor <sup>2</sup>	3
<b>TOTAL CREDITS</b>	<b>14</b>	<b>TOTAL CREDITS</b>	<b>13</b>

## NOTES

<sup>1</sup>Contingent on math placement; if placed in MATH 112, student must take MATH 112 and 113 before MATH 220.

<sup>2</sup>Pre-health students (medical, dental, optometry, chiropractic, podiatry, physical therapy, physician assistant, pharmacy, veterinary) should consider electives/minor that are requirements for entrance into graduate school (i.e., psychology, sociology, human anatomy/physiology, etc.). Students must complete 120 credits (including 40 credits upper division) for BS degree.

<sup>3</sup>BIOL/CHEM electives (take two courses) from: BIOL 381 – Comparative Bioinformatics, BIOL 430 – Molecular Genetics, CHEM 330 – Analytical Chemistry, CHEM 340 – Organic Chemistry II, CHEM 430 – Instrumental/Analytical Chemistry.