

# Sample Four-year Plan for Biology

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 112 – Science Success	1	VUSM FVT – Franciscan Values and Traditions	3
BIOL 160/161 – General Biology (CCWOT Natural Science)	4	BIOL 160/161 – General Biology	4
CHEM 120 – General Chemistry I	4	CHEM 121 – General Chemistry II	4
MATH 112 – College Algebra <sup>1</sup> (CCF Quantitative Literacy)	3	MATH 113 – Trigonometry <sup>1</sup>	3
<b>TOTAL CREDITS</b>	<b>15–16</b>	<b>TOTAL CREDITS</b>	<b>17–18</b>
Fall Semester – Second Year		Spring Semester – Second Year	
BIOL 250 – Molecular and Cellular Basis of Life (CCF Oral Communication)	4	CCWOT (Recommend Historical Analysis)	3
CHEM 140/240 – Organic Chemistry	4	VUSM LDW – Living in a Diverse World	3
MATH 130/230 – Statistics (Recommend 230)	4	BIOL 251 – Ecology and Evolution (CCF Written Communication II)	4
PHYS 250/260 – General/University Physics I <sup>2</sup> or General Elective/Minor <sup>3</sup>	3	SUST 350 – GIS in Sustainability and Environmental Management or General Elective/Minor <sup>3</sup>	3
PHYS 270 – Introduction to Physics Lab I <sup>2</sup>	1	General Elective/Minor <sup>3</sup>	3
<b>TOTAL CREDITS</b>	<b>16</b>	<b>TOTAL CREDITS</b>	<b>16</b>
Fall Semester – Third Year		Spring Semester – Third Year	
CCWOT (Recommend Theological Inquiry)	3	CCWOT (Recommend Social Sciences)	3
VUSM SJE – Social Justice and Equity	3	CCWOT (Recommend Artistic Engagement)	3
BIOL 397 – Introduction to Research	3	BIOL 489/498 – Field/Research Experience	1–2
Biology Elective <sup>4</sup>	4	Biology Elective <sup>4</sup>	4
General Elective/Minor <sup>3</sup>	3	General Elective/Minor <sup>3</sup>	3
<b>TOTAL CREDITS</b>	<b>16</b>	<b>TOTAL CREDITS</b>	<b>14–15</b>
Fall Semester – Fourth Year		Spring Semester – Fourth Year	
CCWOT (Recommend Literary Analysis)	3	CCWOT (Recommend Integrating Faith and Practice)	3
VUSM TEL – The Ethical Life	3	CCWOT (Recommend Philosophical Inquiry)	3
Biology Elective <sup>4</sup>	4	BIOL 499 – Senior Seminar	1
Biology Elective <sup>4</sup>	4	Biology Elective <sup>4</sup>	4
		General Elective/Minor <sup>3</sup>	3
<b>TOTAL CREDITS</b>	<b>14</b>	<b>TOTAL CREDITS</b>	<b>14</b>

## NOTES

<sup>1</sup>Initial math course based on placement. If placed into MATH 113 or 220, take VUSM FVT first semester instead. MATH 113 is only needed if the student plans to take PHYS 250/270 and not for those taking SUST 350 GIS.

<sup>2</sup>Students may take PHYS 250/260 and PHYS 270 or SUST 350 GIS.

<sup>3</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., additional physics and chemistry, calculus, psychology, sociology, human anatomy/physiology, etc.). Students must complete 120 credits (including 40 credits upper division) for BS degree.

<sup>4</sup>Seventeen credits of upper division from BIOL including at least one from each of these three categories (three courses must include a lab):

- **Organismal Biology:** 317 – Plant Biology, 347 – Human Physiology, 353 – Fundamental Neuroscience, 426 – Immunology, 482 – Human Anatomy
- **Cell and Molecular Biology:** 305 – Survey of Biochemistry, 370 – Biochemistry, 376 – General Microbiology, 430 – Molecular Genetics
- **Ecology and Evolution:** 310 – Limnology, 321 – Conservation Biology, 340 – Animal Behavior