

Proposed Four-Year Plan BS, Biological Sciences, Concentration in Microbiology

This program is for the Bachelor of Science in Biological Sciences with a Concentration in Microbiology. Below is a sample program for an entering freshman who wishes to complete this degree in 4 years. Keep in mind that most majors extend their stay at San Jose State University to more than 4 years because they work or have other obligations that necessitate that they proceed more slowly through their coursework. This program presumes that the student has passed the English Placement Test and Entry Level Math Test, has gotten a C or better in high school chemistry, and has placed in Calculus 30 via the Math Placement Test. Students should consult a Biology advisor as soon as possible and, at a minimum, each year thereafter. Note that Biology Majors fulfill the General Education Requirements for Areas B1, B2, B3, B4 by courses in the major. Biology majors should not take GE courses in Area B.

<p>Fall 1</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Course</th> <th style="text-align: right; border-bottom: 1px solid black;">Units</th> </tr> </thead> <tbody> <tr> <td>BIOL 1A</td> <td style="text-align: right;">5</td> </tr> <tr> <td>BIOL 6</td> <td style="text-align: right;">1</td> </tr> <tr> <td>CHEM 1A</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ENGL 1A (GE Area A2)</td> <td style="text-align: right;">3</td> </tr> <tr> <td><u>KIN</u></td> <td style="text-align: right;"><u>1</u></td> </tr> <tr> <td>Total Units</td> <td style="text-align: right;">15</td> </tr> </tbody> </table>	Course	Units	BIOL 1A	5	BIOL 6	1	CHEM 1A	5	ENGL 1A (GE Area A2)	3	<u>KIN</u>	<u>1</u>	Total Units	15	<p>Spring 1</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Course</th> <th style="text-align: right; border-bottom: 1px solid black;">Units</th> </tr> </thead> <tbody> <tr> <td>BIOL 1B</td> <td style="text-align: right;">5</td> </tr> <tr> <td>CHEM 1B</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ENGL 1B (GE Area C3)</td> <td style="text-align: right;">3</td> </tr> <tr> <td><u>MATH 30*</u></td> <td style="text-align: right;"><u>3</u></td> </tr> <tr> <td>Total Units</td> <td style="text-align: right;">16</td> </tr> </tbody> </table>	Course	Units	BIOL 1B	5	CHEM 1B	5	ENGL 1B (GE Area C3)	3	<u>MATH 30*</u>	<u>3</u>	Total Units	16		
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* Math 60 (Calculus for Biological Sciences) or Math 30P (Calculus with Precalculus) can be substituted for Math 30 (Calculus I). **Students must take the Calculus Placement Exam prior to enrolling in calculus.**

** 8 units of electives from major core lab courses (below) or: BIOL 116, BIOL 118, BIOL 121, BIOL 123, BIOL 124/125, BIOL 126, BIOL 134, BIOL 135A, BIOL 135L, BIOL 156, CHEM 055, MICR 122, MICR 123, MICR 140, MICR 142, MICR 166, MICR 170 (or other courses by prior advisor approval)

*** ≥ 7 units from major core lab courses: BIOL 107L, BIOL 116L, BIOL 180, MICR 122L, MICR 123L, MICR 127L, MICR 140L, MICR 141L, or MICR 142L