



**ACT/SAT Math Placement Guide**

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The Math Department enforces all prerequisites. Placement in math classes is by courses completed (grade  $\geq$  C), ACT/SAT/Accuplacer scores that are less than two years old, or AP Calculus scores of 3 or better. After two years placement by AP score changes, please see your advisor for more information. Expired ACT/SAT cannot be used for placement (students with expired ACT/SAT scores must take the Accuplacer to determine placement).

Math Sequence for Biology Majors: **MATH 980**>>**MATH 1010**>>[**MATH 1050 and 1060 -or- MATH 1080**]>>**MATH 1170 or 1210**>> **MATH 1180 or 1220**. \***MATH 1250 and 1260** can also fulfill the math requirement for Biology Majors.  
-Completion of **MATH 1170 and 1180 -or- MATH 1210 and 1220** fulfills the math requirement for Biology BA/BS.

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| ACT 17 or Lower   SAT 460 or lower<br>Accuplacer: EA $\leq$ 53   | MATH 980  |
| ACT 18-22   SAT 470-560<br>-Or- C in MATH 980<br>Accuplacer: EA $\geq$ 54  | MATH 1010   |
| ACT 23-27   SAT 570-640<br>-Or- C in MATH 1010<br>Accuplacer: CLM $\geq$ 60  | MATH 1050 (need "C" or better in both MATH 1050 and 1060 to advance to Calculus I)  |
| Accuplacer: CLM $\geq$ 80<br>Can only place into MATH 1060 by taking the Accuplacer  | MATH 1060 (Need or better to advance to Calculus I)   |
| ACT 24-27   SAT 580-640<br>-Or- B in MATH 1010<br>CLM $\geq$ 65<br>For students that scored a 24 or 25: If you take this course please make sure that you can dedicate enough time to the class and that it is a course you are willing to repeat if needed particularly those interested in pre-professional schools. | MATH 1080 (5) Precalculus<br>This course is the equivalent to taking 1050/1060 in one semester. It is 5 credits and is intensive and moves quickly. |
| ACT 28 or higher   SAT 650 or higher<br>-Or- C in MATH 1050 and 1060 or 1080<br>Accuplacer: CLM $\geq$ 90<br>95 $\leq$ CLM $\leq$ 120 *Do not need permission code to enroll.  | MATH 1170 Calculus for Biologists or MATH 1210 Calculus I   |

If you would like to test into a higher-level math course, you may take the **Accuplacer** exam to place into it.

**AP Math Placement Guide**

**Completion of MATH 1170 and 1180 -or- -1210 and 1220 fulfills the math requirement for Biology BA/BS.**

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| AB 3      | Places into MATH 1170 Calculus for Biologists or MATH 1210 Calculus I<br>- If you took the AP Calculus BC test your junior year in high school, it is recommended but not required that you take a Math Bootcamp refresher.                              |
| AB 4/5    | Fulfills Math 1170/1210. Places into MATH 1220   |
| BC 3      | Places into MATH 1220<br>- If you took the AP Calculus BC test your junior year in high school, it is recommended but not required that you take a Math Bootcamp refresher.  |
| BC 4 or 5 | <b>MATH 1260 Waives 1210 and 1220 for the Biology Major.</b><br>Please note: Many medical schools will NOT accept AP credits towards their entrance requirements in math (most med schools require at least one semester of math at college/university). |



**Chemistry Sequence for Biology Majors**  
**Questions? Email [bioadvising@utah.edu](mailto:bioadvising@utah.edu) | 801-581-6244**

All Biology majors must complete two semesters of General Chemistry with labs (CHEM 1210 + 1215 and CHEM 1220 + 1225), one semester of Organic chemistry (CHEM 2310), and one semester of Biochemistry (BIOL/CHEM 3510). Note: most medical, dental, pharmacy schools, and some vet schools, require 2 semesters Organic chemistry with labs (Chem 2310 + 2315 and 2320 + 2325).

The Chemistry Department enforces MATH pre-requisites for CHEM 1210 (and pre-requisites for other sequenced chem classes). To enroll in CHEM 1210, you must have: completed MATH 1050 or 1080 or calculus I with a C- or better -or- ACT MATH  $\geq 25$  -or- SAT MATH  $\geq 600$  -or- AP CALC AB or CALC BC  $\geq 3$ , -or- complete CHEM 1200 with a C- or better.

**Permission Code Requests: Whitney Hills | [w.hills@utah.edu](mailto:w.hills@utah.edu) in the Chemistry Department.**

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| <b>No high school background in Chemistry</b>   | CHEM 1110 (4) or CHEM 1200 (4; online), then continue to CHEM 1210.   |
| <b>AP Chemistry in high school with an AP exam score of <math>\geq 4</math> and MATH pre-requisites, see above)</b><br><b>Important:</b> <ul style="list-style-type: none"><li>• Chemistry AP scores DO NOT waive the requirement for gen chem labs (CHEM 1215 &amp; 1225)</li><li>• The requirement for general chemistry labs is fulfilled with AP chem labs at the U (CHEM 1070 + 1080, or equiv).</li><li>• Medical/dental/pharm schools may not accept AP scores <math>&lt;4</math>.</li></ul>   | Start with CHEM 1220 Gen Chem II+ CHEM 1215 Gen CHEM Lab.   |
| <b>AP Chemistry in high school with an AP exam score <math>\geq 5</math></b><br><b>Important:</b> <ul style="list-style-type: none"><li>• AP test scores DO NOT waive the reqmt for gen chem labs (CHEM 1215 &amp; 1225). See the CHEM advisor if you completed AP chem labs in high school.</li><li>• We suggest completing at least one general chem lab (CHEM 1215 or CHEM 1225) before taking organic lab.</li><li>• The requirement for general chemistry labs is fulfilled with AP chem labs (CHEM 1070 + 1080, or equiv).</li><li>• Medical/dental/pharm schools may not accept AP in lieu of Gen Chem II.</li></ul> | Start with CHEM 2308 (1 CR O/L review) + CHEM 2310 O Chem 1 + CHEM 1215 Gen Chem 1 lab  |
| <b>Completion of General Chemistry I Lecture and Lab (CHEM 1210 + 1215 or equivalents)</b>  | Start with CHEM 1220(4) + 1225 (1)  |
| <b>Completion of General Chemistry II Lecture and Lab (CHEM 1220 + 1225 or equivalents)</b>   | Start with CHEM 2308 (1 cr; optional on-line review) + CHEM 2310 (4)<br>Pre-med, pre-DDS, pre-vet, pre-pharm students should also take CHEM 2315 (O chem I lab) |
| <b>Completion of Organic Chemistry I Lecture and Lab (CHEM 2310 + 2315 or equivalents).</b>   | Depends on career path, contact Biology advisor.  |
| <b>Completion of Organic Chemistry II Lecture and Lab (CHEM 2320 + 2325 or equivalents).</b>  | Depends on career path, contact Biology advisor.  |