Chemistry Trailing Sections & Chemistry Placement Recommendations

Prerequisite Enforcement of Minimum Mathematics Proficiency
Math 111 is a pre- or co-requisite for CH 221 General Chemistry and CH 227 General Chemistry Lab. Students must meet the Math 111 prerequisites (MATH 095 or a score of 20, 25 or 35 on the UO Math Placement test) in order to register for these courses. Students who do not meet the math prerequisites will be blocked from registering in DuckWeb. Advisors should note that high school chemistry is also a prereq for General Chemistry.

Trailing Sequence for General Chemistry Lecture and Laboratory Series
New - General Chemistry Laboratory Trailing Sequence begins Winter Term 2018
The Chemistry and Biochemistry department will offer trailing sections of both the General Chemistry lecture (CH 221/222/223) and laboratory series (CH227/228/229) during the 2018 winter, spring and fall terms, respectively. We will continue to offer the full General Chemistry lecture series during the summer term, as well as the full General Chemistry laboratory sequence.

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<th>Term:</th>
<th>Fall 2019</th>
<th>Winter 2018</th>
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<th>Summer 2018</th>
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<td>General Chemistry Courses</td>
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Chemistry Diagnostic Assessment and Preparation Assignment
Students who enroll in CH 221 will be directed to take a diagnostic (ALEKS) assessment that will provide a second indication of whether or not the student is enrolled in the appropriate chemistry course (CH 111 or CH 221) for fall term based on their score. There will be no cost to students to take the diagnostic assessment. While placement will not be mandatory at this time, students who have not yet acquired the necessary mathematics skills and science content knowledge are strongly encouraged to prepare for CH 221 by enrolling in CH 111.

All students enrolled in CH 221 will also complete a summer chemistry preparation assignment. Students who do not demonstrate proficiency for CH 221 but would rather not take CH 111 will want to use this preparation assignment to refresh their knowledge of chemistry.

CH 111 will continue to serve as a stand-alone course for students who require only one term of chemistry. However, CH 111 should also be taken by students who want to strengthen their skills and enhance their potential for success in CH 221, or whose score on the chemistry diagnostic assessment demonstrates a need to build proficiency. Two sections of CH 111 will be offered during fall 2017 term to accommodate all students who may need it.

Advising Guidelines for Chemistry Course Registration Based on the Math Placement Score

Students with math placement score of 05 (MATH 070)
Students who have math placement scores of 05 should enroll in Math 070.
Students with a math placement score of 15 (MATH 095 or MATH 199*)

Students who have a math placement score of 15 should enroll in MATH 095 fall term, MATH 111 winter term, and MATH 112 spring term. This will prepare them for success in the General Chemistry series, which they can take summer term or the following academic year.

*Experimental course MATH 199, Foundations of Mathematical Modeling, will be offered to students this fall on a limited basis. Students enrolled in MATH 199 may request an override from the Chemistry and Biochemistry department to enroll in CH 111 concurrently. MATH 199 teaches mathematical modeling for science majors and other students who are exploring STEM options. The focus will be on connecting mathematics with science, social science, engineering, and real-world contexts. Activities include identifying relevant quantities, manipulating quantities through algebra, graphically, or through technology, and interpreting results. This section of MATH 199 will draw primarily on applications relevant to CH 111 and CH 221, with instructors for these courses communicating and exchanging information. Students who are successful in MATH 199 should then take MATH 111 in the winter term along with CH 221 as the co-requisite course.

Students with a math placement score of 20 (MATH 111)

We highly recommend that students who have a math placement score of 20 enroll in CH 111 and Math 111 concurrently during the fall term, and begin the trailing General Chemistry sequence the winter term. This opportunity to prepare for success in CH 221 is especially important in light of the Registrar’s new no-repeat rules. Data show that students who have completed MATH 111 prior to taking CH 221 master the material and receive higher grades than students taking MATH 111 and CH 221 concurrently.

Students with a math placement score of 25 (MATH 112)

Students who have a math placement score of 25 should enroll in CH 221, take the ALEKS assessment, and complete the summer preparatory assignment. Based on their ALEKS score and/or their comfort level with the content of the preparatory assignment, students may choose to move to CH 111 or CH 224H during the drop/add period.

Students with a math placement score of 35 (MATH 251), or with AP Calculus credit

Students who have a math placement score of 35 or received calculus credit for their AP exam score should enroll in in CH 224H (Honors General Chemistry) and CH 237 (Advanced Gen Chem Lab), and the appropriate math course based on their math placement score.

Students with AP Chem Test scores of 4 or 5, or an IB Chemistry score of 6 or 7

Students with high scores on the AP Chem Test or IB Chemistry Exam need to consult with their academic adviser to choose a chemistry course appropriate to their academic and career goals. Students earning scores of 6 or 7 on the IB Chemistry Exam or scores of 4 or 5 on the AP Chemistry Test have the option to receive credit for the CH221/222/223 General Chemistry lecture course sequence or to enroll in CH 224H and CH 237. The Chemistry and Biochemistry Department recommends these students enroll in CH 224H and CH 237. Currently, students cannot receive credit for taking the Honors General Chemistry course sequence if they have received credit for the CH221/222/223 course sequence. The Chemistry and Biochemistry Department has requested an exception to the no-repeat rules based on significant differences in course content between the Honors General Chemistry series and AP/IB Chemistry course.
Students with math scores < 20 should take MATH 095 (recommended) or re-test with a score ≥ 20. An add’l option to enroll in MATH 199 Foundations of Mathematical Modeling will be offered Fall 2016 for a limited # of students, who may then request an override to register for CH 111.