

Changes to Specialized Honours Chemistry Programs

Changes to the 120-credit Specialized Honours BSc degree programs resulting from new accreditation guidelines, affecting:

- the Specialized Honours BSc degree in Chemistry
- the Materials Study Plan
- the Four-Year Analytical Study Plan

Old Requirements (before Fall 2006)	New Requirements (effective Fall 2006)
<p>Math Elective in addition to SC/MATH 1013 3.0 and SC/MATH 1014 3.0 (except Materials Study Plan):</p> <p>SC/MATH 1025 3.00 'Applied Linear Algebra' or SC/MATH 1021 3.00 'Linear Algebra I' or SC/MATH 2015 3.00 'Applied Multivariate and Vector Calculus' or SC/MATH 2221 3.00 'Linear Algebra with Applications I' or SC/MATH 2310 3.00 'Calculus of Several Variables with Applications'</p>	<p>no Math Elective requirement (only SC/MATH 1013 3.0 and SC/MATH 1014 3.0 will continue to be required)</p>
<p>except for the Materials Study Plan, no additional 1000-level SC credits required if SC/MATH 1025 3.00 or SC/MATH 1021 3.00 are taken, otherwise at least 3 additional 1000-level SC credits[†] required for a minimum total of 24 1000-level SC credits</p> <p>for the Materials Study Plan, no additional 1000-level SC credits required</p>	<p>except for the Materials Study Plan, at least 3 additional 1000-level SC credits[†] required for a minimum total of 24 1000-level SC credits</p> <p>for the Materials Study Plan, no additional 1000-level SC credits required</p>
<p>no Biochemistry requirement</p>	<p>new requirement: SC/CHEM 2050 4.0 'Introductory Biochemistry' or equivalent (SC/BCHM/BIOL 2020 4.0)</p>
<p>Spec Hon BSc: 18 additional CHEM credits at the 3000 or 4000 levels, of which at least 10 must be at the 4000 level[‡]</p> <p>Materials Study Plan: at least 7 4000-level CHEM elective credits[‡]</p> <p>Four-Year Analytical Study Plan: 12 additional CHEM credits are required at the 3000 or 4000 levels, of which at least 7 must be at the 4000 level[‡]</p>	<p>Spec Hon BSc: 18 additional CHEM credits at the 3000 or 4000 levels, of which at least 9 must be at the 4000 level</p> <p>Materials Study Plan: at least 6 4000-level CHEM elective credits</p> <p>Four-Year Analytical Study Plan: 12 additional CHEM credits are required at the 3000 or 4000 levels, of which at least 6 must be at the 4000 level</p>

[†] Excluding SC/CHEM 1500 4.0, SC/CHEM 1550 3.0, SC/MATH 1510 6.0, SC/MATH 1515 3.0 and all NATS courses.

[‡] Graduating students (those in their final year of study) with only 9[§] of the minimum 10[§] required 4000-level CHEM elective credits, but who otherwise meet all other of the older degree requirements should nevertheless apply to graduate. The Department of Chemistry will waive the need for 10[§] or more 4000-level CHEM elective credits for students having only 9[§] but otherwise eligible to graduate as per the older requirements. Consult the Undergraduate Program Assistant for information on applying to graduate and the degree audit process.

[§] These numbers reduced by 3 for the Materials and Four-Year Analytical Study Plans.

Which set of requirements should you follow?

- Students entering this program (or transferring into it from other programs) in Fall 2006 or thereafter must follow the new requirements.
- Continuing students (those having entered the program prior to Fall 2006) have the option of following the requirements in place when they joined the program or the requirements in effect when they graduate:
 - If you have completed SC/CHEM 2030 4.0 (not 3.0), you would normally continue to follow the older requirements. If you have an interest in it, you can add SC/CHEM 2050 4.0 as an elective.
 - However, you cannot mix the requirements as you please: you must take either SC/CHEM 2050 4.00 'Introductory Biochemistry' (or equivalent, such as SC/BCHM/BIOL 2020 4.0) as per the new requirements (and all of the older requirements you've already fulfilled will serve to meet the other new requirements), or you must have a third MATH course (the 'MATH Elective') chosen from the restricted list detailed in the old requirements.
 - If you entered the program before Fall 2006 but lack SC/CHEM 2030 4.0 (not 3.0), you are advised (but not compelled) to follow the new requirements by taking SC/CHEM 2050 4.0 as well as SC/CHEM 2030 3.0. It will not matter how many of the older requirements you will have already met, since they will automatically fulfil the other new requirements. The new set of requirements will give you greater breadth within Chemistry, they will ensure that you will have the same number of lab hours as by the older requirements, and they will also facilitate transfers between degree programs that may be contemplated later. As well, you would no longer need a MATH Elective and you would need fewer credits of 4000-level CHEM electives, if you choose to follow the new requirements.
- No matter which set of requirements you follow, you will not need any other 1000-level SC course if you already have a third 1000-level MATH course, such as MATH 1025, and have completed the other 1000-level requirements of the Program Core. If you do not already have a third 1000-level MATH course or if your third MATH course is at the 2000 (or higher) level, you may need another 3 credits of 1000-level SC courses[†] to fulfil the Faculty-level requirement for at least 24 1000-level SC credits.
- If you are following the pre-2006 degree requirements, there is no need to switch to the new requirements in order to benefit from the reduction in the minimum number of 4000-level CHEM elective credits taking effect in Fall 2006 for all new or transferring students. Graduating students (those in their final year of study) with only 9* of the minimum 10* required 4000-level CHEM elective credits, but who otherwise meet all others of the older degree requirements, should nevertheless apply to graduate. The Department of Chemistry will waive the need for 10* or more 4000-level CHEM elective credits for students having only 9* but otherwise eligible to graduate as per the older requirements. Consult the Undergraduate Program Assistant (124 CB) for information on applying to graduate and the degree audit process.

[†] Excluding SC/CHEM 1500 4.0, SC/CHEM 1550 3.0, SC/MATH 1510 6.0, SC/MATH 1515 3.0 and all NATS courses.

* Three fewer credits in the Materials or Four-Year Analytical Study Plans.

Changes to BSc Chemistry Programs

Changes to the 90-credit BSc degree programs in concert with changes to the 120-credit Spec Hon BSc programs, affecting:

- the BSc degree in Chemistry
- the Three-Year Analytical Study Plan

Old Requirements (before Fall 2006)	New Requirements (effective Fall 2006)
Math Elective: SC/MATH 1025 3.00 'Applied Linear Algebra' or SC/MATH 1021 3.00 'Linear Algebra I' or SC/MATH 2015 3.00 'Applied Multivariate and Vector Calculus' or SC/MATH 2221 3.00 'Linear Algebra with Applications I' or SC/MATH 2310 3.00 'Calculus of Several Variables with Applications'	no Math Elective requirement
no additional 1000-level SC credits required if SC/MATH 1025 3.00 or SC/MATH 1021 3.00 are taken, otherwise at least 3 additional 1000-level SC credits [†] required for a minimum total of 24 1000-level SC credits	at least 3 additional 1000-level SC credits [†] required for a minimum total of 24 1000-level SC credits
no Biochemistry requirement	strongly advised: SC/CHEM 2050 4.0 'Introductory Biochemistry' or equivalent especially recommended if contemplating a transfer to a Specialized Honours degree

[†] Excluding SC/CHEM 1500 4.0, SC/CHEM 1550 3.0, SC/MATH 1510 6.0, SC/MATH 1515 3.0 and all NATS courses.

Which set of requirements should you follow?

- Students expecting to graduate with a 90-credit BSc degree in Chemistry (including the Three-Year Analytical Study Plan) have the option of following either the set of requirements in place when they entered the program or those in effect when they graduate. Except for the recommendation to take SC/CHEM 2050 4.0, students meeting the old requirements automatically meet the new requirements.
- Students transferring into the 90-credit BSc program (including the Three-Year Analytical Study Plan) from a Specialized Honours program in Chemistry (including the Materials and the Four-Year Analytical Study Plans) and contemplating a return to a Specialized Honours program in Chemistry before graduation should be mindful of following either the set of Specialized Honours requirements in place when they entered that program or those in effect when they graduate. In short, you will need either SC/CHEM 2050 4.0 (or equivalent) as per the new Specialized Honours requirements or a MATH Elective as per the old ones, chosen from the restricted list detailed in the old Specialized Honours requirements, in order to graduate from a Specialized Honours program in Chemistry (see 'Changes to Specialized Honours Chemistry Programs').