Checksheet - Required Courses for Chemistry Majors

CHEMISTRY

_____ Chem 1061/5 (4) Chemical Principles I
_____ Chem 1062/6 (4) Chemical Principles II
_____ Chem 2301 (3) Organic Chem I
_____ Chem 2302 (3) Organic Chem II
_____ Chem 2311 (4) Organic Lab
_____ Chem 2101 (3) Intro Analytical Chem Lecture
_____ Chem 2111 (2) Intro Analytical Chem Lab
_____ Chem 4501 (3) Thermo, Stat Mech, Kinetics
_____ Chem 4502 (3) Quantum Mech, Spectroscopy
_____ Chem 4701 (3) Inorganic Chemistry

Adv. Chemistry Lecture Elective_ (CSE 3 cr., CLA 0 cr.)
Selected from any non-required upper level Chem course

Adv. Chem Lab Electives_ (CSE 3 courses, CLA 2 courses)

4111W (2), 4223W (2), 4311W (4) or 2312H (5), 4423W (2),
4511W (3), 4711W (3). CSE students can use Chem 4094W
or a selected (*) upper level lab (≥2 cr.) in place of one lab.
CLA students can use 2094 or 4094W in place of one lab.

Research Adviser __________________________

(*) BioC 4025W (2), ChEn 4401W (3), MatS 3801 (4), or Phys 2605 (3)

MATH

_____ Math 1271 (4) or 1371 (4) Calculus I
_____ Math 1272 (4) or 1372 (4) Calculus II
_____ Math 2263 (4) or 2374 (4) Multivariable Calculus
_____ Math/Phys elective (4) CSE Only

(Math 2243 or 2373, Phys 2303 or 2503, or Stat 3021)

PHYSICS

_____ Phys 1301W (4) or 1201W (5) Intro Physics I
_____ Phys 1302W (4) or 1202W (5) Intro Physics II

WRITING PRACTICE

_____ First-year Writing Requirement (e.g., Writ 1301 or 1401)
_____ 4 Writing Intensive Requirements (incl. 2 at ≥3xxx level)

ADVANCED TECHNICAL ELECTIVES

CSE 6 cr., CLA 3 cr. — upper level technical courses (≥3 cr.)

LIBERAL EDUCATION

onestop.umn.edu/academics/education-requirements

Diversified Core_ (7 courses*)
One course of ≥3 credits in each of the following 5 areas:
• Arts/Humanities ____________  • Historical Perspective ____________  • Literature ____________
• Mathematical Thinking ______  • Social Sciences __________________

One course of ≥4 credits, with a laboratory or field experience, in both of the following:
• Physical Science ____________  • Biological Science ____________

Designated Themes_ (4 courses*)
One course of ≥3 credits in 4 of the following 5 areas:
• Civic Life and Ethics ____________  • Diversity & Social Justice in the US ____________
• The Environment ____________  • Global Perspectives ____________  • Technology & Society ____________

* Some courses are certified for both a Core and a Theme: onestop.umn.edu/search-education-requirements