



## General Chemistry I, CHEM 101

2024-2025

2024-2025

### Course Information

Faculty and Department: Faculty of Science  
Department of Chemistry

### Course and Staff Information

Department: Faculty of Science  
Faculty of Science - Dept of Chemistry  
Faculty of Science - Dept of Chemistry

Course Code:

CHEM101

Faculty of Science - Dept of Chemistry

Department of Chemistry

### Policy for Changing the Section

Students enrolled in the course should be notified by subject teachers with any changes to the course schedule. Any changes to the course schedule will be communicated by email to students on the announcement of the 1st class contact page.

### Course Title

CHEM101 is a required course for students in the first semester of the Bachelor of Science degree. The course covers the fundamental principles of chemistry, including atomic structure, chemical bonding, stoichiometry, and thermodynamics. The course is designed to provide students with a solid foundation in chemistry and to prepare them for more advanced courses in the field.

### Prerequisites

None

### Course Learning Objectives

Students who successfully complete this course should be able to:

- 1. Apply the periodic table to predict the properties of elements and compounds.
- 2. Calculate the molar mass of a compound and the number of moles of a substance.
- 3. Write and balance chemical equations.
- 4. Calculate the amount of reactants and products in a chemical reaction.
- 5. Calculate the enthalpy change of a reaction.
- 6. Calculate the equilibrium constant of a reaction.
- 7. Calculate the pH of a solution.
- 8. Calculate the concentration of a solution.
- 9. Calculate the molarity of a solution.
- 10. Calculate the normality of a solution.
- 11. Calculate the molality of a solution.
- 12. Calculate the mole fraction of a component in a mixture.
- 13. Calculate the mass percent of a component in a mixture.
- 14. Calculate the volume percent of a component in a mixture.
- 15. Calculate the density of a substance.
- 16. Calculate the specific heat capacity of a substance.
- 17. Calculate the heat capacity of a substance.
- 18. Calculate the enthalpy of formation of a compound.
- 19. Calculate the enthalpy of combustion of a compound.
- 20. Calculate the enthalpy of fusion of a compound.
- 21. Calculate the enthalpy of vaporization of a compound.
- 22. Calculate the enthalpy of sublimation of a compound.
- 23. Calculate the enthalpy of atomization of a compound.
- 24. Calculate the enthalpy of hydration of a compound.
- 25. Calculate the enthalpy of solution of a compound.
- 26. Calculate the enthalpy of mixing of a solution.
- 27. Calculate the enthalpy of dilution of a solution.
- 28. Calculate the enthalpy of crystallization of a compound.
- 29. Calculate the enthalpy of melting of a compound.
- 30. Calculate the enthalpy of condensation of a compound.
- 31. Calculate the enthalpy of evaporation of a compound.
- 32. Calculate the enthalpy of condensation of a gas.
- 33. Calculate the enthalpy of condensation of a liquid.
- 34. Calculate the enthalpy of condensation of a solid.
- 35. Calculate the enthalpy of condensation of a plasma.
- 36. Calculate the enthalpy of condensation of a quark-gluon plasma.
- 37. Calculate the enthalpy of condensation of a Bose-Einstein condensate.
- 38. Calculate the enthalpy of condensation of a superfluid.
- 39. Calculate the enthalpy of condensation of a superconductor.
- 40. Calculate the enthalpy of condensation of a neutron star.
- 41. Calculate the enthalpy of condensation of a black hole.
- 42. Calculate the enthalpy of condensation of a white dwarf.
- 43. Calculate the enthalpy of condensation of a red giant.
- 44. Calculate the enthalpy of condensation of a red supergiant.
- 45. Calculate the enthalpy of condensation of a blue supergiant.
- 46. Calculate the enthalpy of condensation of a blue supergiant.
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- 48. Calculate the enthalpy of condensation of a blue supergiant.
- 49. Calculate the enthalpy of condensation of a blue supergiant.
- 50. Calculate the enthalpy of condensation of a blue supergiant.

At the end of this course, students should be able to:

1. Calculate the molar mass of a compound and the number of moles of a substance.
2. Write and balance chemical equations.
3. Calculate the amount of reactants and products in a chemical reaction.
4. Calculate the enthalpy change of a reaction.
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