

KINGSBOROUGH COMMUNITY COLLEGE
The City University of New York
CURRICULUM DATA TRANSMITTAL SHEET

DEPARTMENT: PHYSICAL SCIENCES DATE: September 2015

Title of Course or Degree Change: CHM 1100 - GENERAL CHEMISTRY I

Change(s) Initiated: (Please Check)

- | | |
|---|--|
| <input type="checkbox"/> Letter of Intent | <input type="checkbox"/> Proposal (Letter of Intent sent previously) |
| <input type="checkbox"/> Closing of Degree Program | <input type="checkbox"/> Change in Degree Requirements |
| <input type="checkbox"/> New Course* | <input type="checkbox"/> Change in Discipline Code |
| <input type="checkbox"/> New 82 Course | <input checked="" type="checkbox"/> Change in Description |
| <input type="checkbox"/> New Certificate Program | <input type="checkbox"/> Deletion of Course |
| <input type="checkbox"/> Change in Pre/Co-Requisite | <input type="checkbox"/> Change in Course Titles, Numbers, Crs. &/or Hours |
| <input type="checkbox"/> Other (please describe): | |

PLEASE ATTACH PERTINENT MATERIAL TO ILLUSTRATE AND EXPLAIN ALL CHANGES

I. DEPARTMENTAL ACTION

Action by Department &/or Departmental Curriculum Committee, if required:

Date approved: 9/16/15

Signature, Committee Chairperson:

Signature, Department Chair:

Date: 9/16/15

II. PROVOST ACTION

Provost to act within 30 days of receipt and forward to College-wide Curriculum Committee exercising one of the following options:

A. Approved

B. Returned to Department with comments

Recommendations (if any):

Signature, Provost:

Date:

III. CURRICULUM SUB-COMMITTEE RECOMMENDATIONS (*FOR NEW COURSES ONLY):

Provost to act within 30 days of receipt and forward to College-wide Curriculum Committee exercising one of the following options:

A. Approved

B. Returned to Department with comments

Recommendations (if any):

Signature, Sub-Committee Chair :

Date:

IV. COLLEGE-WIDE CURRICULUM COMMITTEE ACTION

Committee to act within 30 days of receipt, exercising **one** of the following options:

A. Approved (and forwarded to Steering Committee)

B. Tabled (and Department notified)

Signature, Chair of Curriculum Committee:

Date:

Change in Description

The proposed change comports with present curriculum, instructional and subject matter standards.

Original

CHM 1100 – GENERAL CHEMISTRY I (4 crs. 6 hrs.)

Two-semester classroom and laboratory course. First term introduces: the mole concept, stoichiometry, thermochemistry, atomic structure, periodic properties, bonding, (especially of carbon compounds), the gaseous, liquid and solid states, phase changes, electrolytes, and the properties of selected elements in relation to environmental problems. Prerequisites: MAT 900 or a passing score on the COMPASS parts 1 and 2 or a passing grade in MAT M200; and either CHM 100 or passing exemption exam for CHM 100. Contact department for exemption exam information. Required Core: Life and Physical Sciences; Flexible Core: Scientific World (Group E)

Proposed

CHM 1100 – GENERAL CHEMISTRY I (4 crs. 6 hrs.)

First semester of a two-semester lecture and laboratory sequence intended for science and engineering majors. Lecture topics include: atomic theory, stoichiometry of chemical reactions, types of reactions, introduction to acid-base, solubility, and reduction-oxidation chemistry, thermochemistry, quantum mechanical description of atoms, the elements and the periodic table, covalent bonding, molecular geometry, properties of real and ideal gases, liquids, and solids, and colligative properties of binary mixtures. Laboratory: An experimental approach to chemical sciences with emphasis on developing fundamental, reproducible laboratory technique and a goal of understanding and achieving precision and accuracy in laboratory experiments. Proper use of laboratory equipment and standard wet chemical methods are practiced. Areas of investigations include acid-base, precipitation, and reduction-oxidation chemistry, thermochemistry, ideal gases, spectroscopy, and green chemistry. Prerequisites: MAT 900 or a passing score on the COMPASS parts 1 and 2 or a passing grade in MAT M200; and either **CHM 200** or CHM 100 or passing **score on chemistry** exemption exam. Contact department for **chemistry** exemption exam information. Required Core: Life and Physical Sciences; Flexible Core: Scientific World (Group E)