

MESABI RANGE COLLEGE

Course Outline

Course Title: General Chemistry II
Semester Course Prefix and Number: CHEM 1523
Old Quarter Course Prefix and Number: CHEM 112 &113

Submitted By: Jason Slattery
Approval Date:
Revision Date: February 2016

Number of Credits: 4
Semester(s) Offered:
Class Size: 40/lecture
20/lab

Number of Lecture Credits: 3
Number of Lab Credits: 1
Number of Studio/Demonstration/Internship Credits:

Number of Lab Hours: 3

Negotiated by AASC on:
(date)

Course Purpose Code:

- 0 – Developmental Courses
- 1 – Non-transferable
- 2 – Technical course related to career programs
- 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- 4 – Other college course not considered a part of MNTC (e.g. computer science, health, physical education)
- 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course will cover intermolecular forces, structures of solids, properties of solutions, chemical kinetics, chemical equilibrium, aqueous equilibria, and chemistry as it relates to the environment, chemical thermodynamics, and electrochemistry.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): CHEM 1522 (or previous course CHEM 111 and 112)
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:

All Science Majors

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:

(Notes: No more than two goals may be met by any one course. AASC review and the Chief Academic Officer's approval are required.)

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| 0. <input type="checkbox"/> None | 6. <input type="checkbox"/> The Humanities and Fine Arts |
| 1. <input type="checkbox"/> Communications | 7. <input type="checkbox"/> Human Diversity |
| 2. <input type="checkbox"/> Critical Thinking | 8. <input type="checkbox"/> Global Perspectives |
| 3. <input checked="" type="checkbox"/> Natural Sciences | 9. <input type="checkbox"/> Ethical and Civic Responsibility |
| 4. <input type="checkbox"/> Mathematical/Logical Reasoning | 10. <input type="checkbox"/> People and the Environment |
| 5. <input type="checkbox"/> History and the Social and Behavioral Sciences | |

Learning Outcomes: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:

- Demonstrate understanding of scientific theories
- Critically analyze and solve problems with multiple steps
- Formulate and test hypotheses by performing laboratory experiments
- Communicate experimental findings, analyses, and interpretations in writing

Student Assessment Methods:

- End of chapter homework problems
- Quiz and exam problems
- Laboratory reports

Use of Instructional Technology: (includes software, interactive video and other instructional technologies):

NA

Additional Special Information: (special fees, directives on hazardous materials, etc.)

Transfer Information: (Please list colleges/majors that accept this course in transfer.)

Affiliated Mesabi Range College Courses and Programs:

IRE (Itasca Community College)

Approvals:

Body	Representative Signatures	Date
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Instructional Services
Copies: Transfer Specialist, Originating Faculty Member, Records
Revised: December 2012