

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

Course Outline

Course Title: Fundamentals of Organic Chemistry
Semester Course Prefix and Number: CHEM 1512
Old Quarter Course Prefix and Number: CHEM 102

Submitted By: Jason Slattery
Approval Date: Jan 30, 2013
Revision Date: Aug 2012

Number of Credits: 4 Number of Lecture Credits: 3
Semester(s) Offered: Number of Lab Credits: 1 Number of Lab Hours: 2
Class Size: Number of Studio/Demonstration/Internship Credits:
Negotiated by AASC on: 24
(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 is designed as a survey of organic chemistry. Emphasis is on functional groups, nomenclature, reactions, and applications.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): CHEM 1511 or CHEM 1522 (or previous courses CHEM 101 or CHEM 111 and CHEM 112)
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:

Allied Health Fields

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
- Formulate and test hypotheses by performing laboratory experiments
- Communicate their experimental findings, analyses, and interpretations in writing

Student Assessment Methods:

- Locally developed objective exams
- Laboratory reports

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

N/A

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

N/A

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

Affiliated Mesabi Range College Courses and Programs:

N/A

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