

# MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

## Course Outline

**Course Title:** Pharmacology  
**Semester Course Prefix and Number:** EMTP 1225  
**Old Quarter Course Prefix and Number:**

**Submitted By:**  
**Approval Date:**  
**Revision Date:**

**Number of Credits:** 2  
**Semester(s) Offered:**  
**Class Size:**  
Negotiated by AASC on:  
(date)

**Number of Lecture Credits:** 2  
**Number of Lab Credits:**      **Number of Lab Hours:**  
**Number of Studio/Demonstration/Internship Credits:**

### 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 an introduction to pharmacological interventions commonly used in the prehospital environment. It covers pharmacokinetics and pharmacodynamics of medications, administration routes, techniques and dosage calculations. Major categories of medications such as antiarrhythmics, analgesics, catecholamine's, etc. will be introduced along with specific medications in each group.

### Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): EMTP 1120  
Reading Prerequisite:  
Composition Prerequisite:  
Mathematics Prerequisite:

### Career Programs and Transfer Majors Accessing this Course:

Medical Field

### 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. Curriculum Committee review and the Chief Academic Officer's approval are required.)

- |  |  |
|--|--|
| 0. <input checked="" 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 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:

- Be able to integrate path physiological principles of pharmacology and the assessment findings to formulate a field impression and implement a pharmacologic management plan.
- Be able to safely and precisely access the venous circulation and administer medications.

**Student Assessment Methods:**

Standard examinations and quizzes

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

Appropriate paramedic instructional materials

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

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

**Course Outline Revision History:**

The focus of this course is to introduce the student to pharmacological interventions commonly used in the pre-hospital environment.

**Approvals:**

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

**Distribution:** Original – Instructional Services  
**Copies:** Transfer Specialist, Originating Faculty Member, Records  
**Revised:** March 2010