

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. MEDA

COURSE NUMBER: 2135

NUMBER OF CREDITS: 3

Lecture: 3 Lab: 0 OJT: 0

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| Course Title: |
| Pharmacology |

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| Catalog Description: |
| Pharmacology introduces pharmacological concepts and drug classifications as they apply to the diseases and disorders they prevent and/or treat. The class also explores the effects of drugs on the different body systems. |

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| Prerequisites or Necessary Entry Skills/Knowledge: |
| HC 1151 or both BIOL 2201 and BIOL 2202. |

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ Goal 2: Critical Thinking: By meeting the following competencies:
- ☐ Goal 3: Natural Sciences: By meeting the following competencies:
- ☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- ☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

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| Topics to be Covered |
| Drug sources and forms, the medication prescription/order, schedules of controlled substances. Indications and desired actions, routes, dosages, side effects and interactions of drugs from the drug classifications of antibiotics, antifungal agents, antivirals, immunizing agents, antineoplastic agents, vitamins/minerals/herbs, psychotropic drugs, and drugs used for disorders of the following body systems: musculoskeletal system, gastrointestinal system, cardiovascular system, respiratory system, urinary system, endocrine system, nervous system, and reproductive system |
| Patient and family education, special considerations for pediatric and elderly populations, and substance abuse. |

| Student Learning Outcome |
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| Apply basic concepts of pharmacology, including but not limited to terminology, drug sources, and drug forms. |
| Identify the parts of a medication order or prescription. |
| Discuss legal aspects of ordering and dispensing medications, including the scheduling and regulation of controlled substances. |
| Utilize drug reference books to derive accurate information about drugs. |
| Categorize drugs into therapeutic classifications. |
| Discuss indications and desired actions, routes, dosages and side effects of drugs from the classifications studied. |
| Explore interactions drugs may have with other drugs, foods and other substances. |
| Identify special considerations that apply to pharmacology for pediatric and elderly populations. |
| Apply knowledge of drugs to determine appropriate patient/family education. |

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| Is this course part of a transfer pathway: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
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| *If yes, please list the competencies below |
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Revised Date: 1/24/2022