



COURSE SYLLABUS – PAR 212
Pre Hospital Pharmacology

This syllabus is not considered a legal document and is subject to change.

Course Number, Title, CRN, Section:

PAR 212, Pre Hospital Pharmacology, CRN 1398, Section 101

Semester, Year, Day, Time, Location:

Fall 2017, Wednesday 2:30-5:50, Room 422

Instructor Name: Sean McManus, BA, AAS, FP-C, NRP, MCCP

Office: Main Campus Room 422

Telephone: (304) 533-4251

E-mail: mcmanus1@mctc.edu

Office Hours: By appointment

Course Description, Credits, Prerequisites:

3.0 credits. A lecture/lab course focused on an integration of pathophysiological principles of pharmacology and assessment findings to formulate a pre-hospital impression and implement a pharmacological management plan for the benefit and improvement of victim(s). Skills such as Intramuscular, Subcutaneous, Intraosseous and Intravenous medication administration will be included.

Required Textbook(s):

Nancy Caroline's Emergency Care in the Streets (7th Edition) (ISBN: 9781284087529)

Nancy Caroline's Emergency Care in the Streets Student Workbook

Required Materials:

None

Recommended Materials:

Pharmacology for the EMS Provider; *Richard K Beck* (ISBN:978-0-8036-4364-2)

Account Requirement:

All students must have an MCTC account with user name and password and communicate with their instructors via MCTC e-mail.

All students are required to complete their Starfish profile and use Starfish to schedule appointments with their advisor(s) and other services. Students can login to Starfish from the link in Blackboard. Students should check their MCTC email daily for incoming messages and Starfish alerts.

All students are required to complete online assignments and assignments posted on Blackboard.

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Learning Outcomes: After successfully completing this course, students will be able to:

1. Integrate comprehensive knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.
2. Apply fundamental knowledge of principles of pharmacology that relate to the following:
 - Medication safety
 - Medication legislation
 - Naming
 - Classifications
 - Schedules
 - Pharmacokinetics
 - Storage and security
 - Autonomic Pharmacology
 - Metabolism and excretion
 - Mechanism of action
 - Phases of medication activity
 - Medication response relationships
 - Medication interactions
 - Toxicity
3. Apply fundamental knowledge of medication administration that relate to the following:
 - Routes of medication
 - Administer medication to a patient within the scope of the Paramedic
4. Apply fundamental knowledge of emergency medications that relate to the following:
 - Names
 - Actions
 - Indications
 - Contraindications
 - Complications
 - Routes of administration
 - Side effects
 - Interactions
 - Dosage calculations for the medications administered

General Education Learning Outcomes:

Covered (√)	General Education Learning Outcomes	Embedded in the following Course Learning Outcomes
X	1. Communicate effectively using written skills.	1, 2, 3, 4
X	2. Communicate effectively using oral skills.	1, 2, 3, 4
X	3. Apply quantitative reasoning appropriate to the degree.	1, 2, 3, 4
X	4. Use critical thinking skills.	1, 4,
X	5. Apply ethical reasoning.	1, 4,
X	6. Utilize technology as it is relevant to the degree.	1, 3, 4
X	7. Identify appropriate intercultural interaction.	1, 4

Assessment of Learning Outcomes:

Exams, homework, quizzes, projects, presentations, critical thinking scenarios and simulation. Homework is due at the beginning of each class, exams as indicated.

Exams: 200

Quizzes: 250

Homework: 275

Scenarios: 375

Portfolio: 150

Comprehensive Final: 200

Total: 1450

GRADE SCALE

Score	Grade
93-100%	A
84-92%	B
75-83%	C
68-74%	D
Below 68	F

Make-up Policy:

Students must complete all course work as assigned and as scheduled. Students may only make up exams with the prior approval of the course instructor. Missed exams must be made up within one (1) week of the missed exam or the student will be given the grade of "0." Make-up tests **MUST** be made up during office hours **NOT** during regular class time. Quizzes cannot be made up.

Late Work / Assignments Policy:

Assignments are due the date indicated by the instructor. Assignments turned in late for any reason will be subject to the following: 10% reduction of points for assignments turned in up to one week late. 20% reduction of points for assignments turned in up to two weeks late. **ASSIGNMENTS THAT ARE TURNED IN MORE THAN TWO WEEKS LATE WILL NOT BE GRADED.** Extenuating circumstances will be evaluated by the instructor on a case by case basis; make sure to communicate with the instructor to let him or her know if you will be turning in assignments after they are due.

Faculty Response/Grading Timeframe Expectations: Student emails and messages (within Blackboard) will be answered in 24-48 hours excluding weekends. Assignments will be graded in 7-10 business days from the date the assignment is due and or received.

College Wide Student Attendance Policy:

To comply with federal financial aid and loan disbursement guidelines the college adopted an Attendance Procedure. This procedure was effective Fall 2013, with revisions Spring 2016/Fall 2016, and has the following key elements:

- **To obtain credit for a course a student must attend at least 85% of the contact hours for a particular course.** However, instructors are given the option of allowing a student to complete the course based on the student's documented circumstances and his or her progress in the course.
- **Students should be advised that absences in excess of 15% of the total class meeting may result in being dropped from the course.** Note: Some departments/programs may have additional attendance guidelines and related grading policies. The instructor shall detail the specific attendance policy for his/her class. Students are responsible for all course work

missed.

- A student in an on-campus course missing a cumulative 15 percent of the class meetings and/or not keeping up with the course assignments as specified in the course syllabus may be withdrawn by the instructor.
- Attendance in online courses is defined as active participation and must be regular and substantive. Active participation is defined by the engagement activities available through the Learning Management System (LMS) (discussion board assignments, submitting/completing assignments, communicating with instructor about academic subject matter, participating in an interactive tutorial or computer assisted instruction, completion of assessments, etc.). A student in an online course must actively participate in the course by completing the required activities as described in the Instructor's syllabus. Simply logging into an online class is not sufficient, by itself, to demonstrate attendance.

Academic Support:

The Academic Skills Center in room 103 provides the following resources:

The Academic Skills Center (ASC) is operated by a director and a highly qualified staff of math instructors and peer tutors. In addition to working with teachers, students have access to computers and videos to assist in building academic skills and refreshing existing skills.

The ASC offers drop-in tutoring and study groups for all math students.

ASC 099 is the co-requisite to MAT 100 and MAT 144. Students enrolled in ASC 099 are required to attend tutoring sessions.

Academic Skills Center phone number – (304) 710-3400

Hours of operation: Monday – Thursday 8:00 a.m. – 6:30 p.m.

Peer Tutoring is a free service available to current students who are interested in receiving one-on-one assistance from a peer who has successfully completed the course. Study mentoring is a free service in which faculty provide organization and study skills assistance. To make an appointment with a peer tutor or study mentor, please contact Ms. Wendy Carter at carter14@mctc.edu or (304)710-3400 extension 1011 or stop by the Academic Skills Center in Room 103.

Located on the 1st floor of the Main Building in Room 103D, the **Mountwest Writing Center** offers you a 30-minute, one-on-one tutoring session for any written assignment. Bring a printed draft of your paper and a copy of your professor's assignment sheet, and your Writing Center instructor will guide you in learning how to revise grammar usage, sentence structure, organization, thesis and paragraph development, and much more. Walk-ins are welcome. No appointments are necessary but are accepted. Please contact Mr. Jesse Riggs, coordinator, at riggsj@mctc.edu or (304)710-3437.

Hours of operation: Monday – Thursday 9:00 a.m. – 6:30 p.m.

The Online Writing Center— If you are currently enrolled in a Mountwest Community & Technical College program, you can access the Mountwest Online Writing Center to submit a digital copy of your draft for evaluation or request a video conference with a Writing Center tutor. Just click the Online Writing Center link in the Student Resources navigation pane on your Blackboard landing page and follow the steps to enroll.

Mountwest Community & Technical College provides access to Brainfuse, an online tutoring service that can be accessed through any Blackboard course under “Course Tools.”

Procedure for Students with Disabilities: Mountwest Community & Technical College is committed to equal opportunity in education for all students, including those with physical, learning, and psychological disabilities. It is the responsibility of students with disabilities to contact Jill Goheen at 304-710-3368 or Debbie Spencer at 304-710-3369, in the Office of Student Services, and provide documentation of their disability. Following this, a letter will be sent to each of the student’s instructors outlining the academic adjustments and/or auxiliary aids he/she will need to ensure equality in classroom experiences, outside assignments, testing, and grading. The instructor and student will meet to discuss how the adjustments and/or auxiliary aids requested will be provided. For more information, please contact Mountwest Community & Technical College Office of Student Services, phone 304-710-3141.

Please contact: Jill Goheen, kelleyj@mctc.edu, 304 710-3368, Student Services Room 101 J or Debbie Spencer, spencerd@mctc.edu, 304 710-3369, Student Services Room 101 M

Additional Policies Affecting Students:

- See Mountwest Catalog at <http://www.mctc.edu/>
- Academic Honesty – refer to the Mountwest Catalog
- Disabled Student Services – Contact the Office of Student Services
- Financial Aid Information — ofa@mctc.edu (Check MyMCTC for status)
- Student Information at myMCTC (for which you are responsible as a student) <http://www.mctc.edu>
- Inclement Weather Procedures — <http://www.mctc.edu/safety/weather-related-closings/>

Students must understand that they will not be considered eligible for the National Registry of Emergency Medical Technicians Paramedic Examination process unless they have completed ALL PAR courses with an overall grade of “C” or better. Students may be removed from the program at any time that their overall performance in a course falls below these standards.

Cell phone policy

All Cell Phones and Pagers must be turned off or turned to VIBRATE prior to entering the classroom. No interruptions of class unless it is an EMERGENCY. If a student is caught using their phone during a quiz or a test, it will be assumed the student is cheating. Their score for that assignment will be ‘zero’ and they will be subject to the academic dishonesty policy noted in the handbook.

Academic Calendar:

http://www.mctc.edu/assets/editor-uploads/2017_Fall_Academic_Calendar_1.pdf

Final Exam Schedule:

<http://www.mctc.edu/student-services/registrar/exam-schedule/>

Fall 2017 Exam Schedule

Exam Hour	Monday December 4	Tuesday December 5	Wednesday December 6	Thursday December 7
9:00 A.M. TILL 11:00 A.M.	CLASSES MEETING AT 8:00 MW	CLASSES MEETING AT 9:00 or 9:30 TR	CLASSES MEETING AT 9:00, 9:30 or 10:00 MW	CLASSES MEETING AT 8:00 TR
11:30 A.M. TILL 1:30 P.M.	CLASSES MEETING AT 11:00 MW	CLASSES MEETING AT 12:30 TR	CLASSES MEETING AT 12:30 MW	CLASSES MEETING AT 11:00 TR
2:00 P.M. TILL 4:00 P.M.	CLASSES MEETING AT 2:00 MW	CLASSES MEETING AT 3:30 TR	CLASSES MEETING AT 3:30 MW	CLASSES MEETING AT 2:00 TR

NOTE: All classes meeting at 3 p.m. and after that are not listed above will be examined in two-hour time blocks at the first regularly scheduled class meeting during the above examination period. If the two-hour time allowance results in a conflict in exam times, it is the student's responsibility to notify the professor of the later course and to reschedule the later exam. Rescheduled exams must be concluded by Thursday, December 7, at 6 p.m.

DEADLINE FOR ONLINE SUBMISSION OF GRADES IS MONDAY, December 11, 12 noon.

Video & Audio recording of the class is prohibited.

Tentative Class / Finals Schedule

Date	Assignments/Exams/Activities/Due Dates
August 23	First day of class: <i>Math Applications for Pharmacology</i>
August 30	Chapter 11: <i>Medication Administration (IV Techniques and Administration pg. 479-pg.496)</i> Lab: <i>IV Set Up and practice</i>
September 6	Chapter 11: <i>Medication Administration (Intraosseous Infusion pg. 497-pg. 501)</i> Lab: <i>IO Set Up and Practice</i>
September 13	Chapter 10: <i>Principles of Pharmacology (pg.423-462)</i> Lab: <i>IV Practice</i>
September 20 NO CLASS	Test # 1: <i>Covering Chapter 11 (pages 471-501)</i>
September 27 ALL DAY	Chapter 11: <i>Medication Administration (pg. 469- 479) : Medication Administration (pg. 508 {Enteral Medication Administration}- 536)</i> Lab: <i>IO Practice</i> Lab: <i>Adding Medication to an IV Bag; IV Piggyback and IV Pumps; Inhalation Administration</i>
October 4	Test #2: <i>Covering Chapter 10 (pg. 423-462) and Chapter 11 (pg. 469-479) & (pg.508-536)</i> Chapter 11: <i>Medication Administration [Mathematical Principals used in Pharmacology] (pg.501-508)</i> Lab: <i>Drug Calculation Practice</i>
October 11	Quiz #1: <i>Drug Calculation</i> Chapter 12: <i>Emergency Medications (pg 545-548) [Introduction to Drug Identification Cards]</i> Lab: <i>Scenario based drug calculation with IV/IO/SQ/IM Administration</i>
October 18 NO CLASS	<i>Prep for next week: Respiratory/Cardiac/Trauma/Environmental and Behavioral Medications Scenario Application</i>
October 25 ALL DAY	Chapter 12: <i>Emergency Medications: Respiratory & Cardiac</i> <i>Emergency Medications: Trauma /Environmental/ Behavioral</i> Lab: <i>Scenario based drug selection and administrations with above medications</i> End of day: Quiz #2: <i>Emergency Medications: Respiratory & Cardiac</i> Quiz #3: <i>Emergency Medications: Trauma / Environmental/ Behavioral</i>
November 1	Chapter 12: <i>Emergency Medications: Renal / Toxicology</i> Lab: <i>Scenario based drug selection and administration with above medications</i>
November 8	Quiz #4: <i>Emergency Medications: Renal/Toxicology</i> Chapter 12: <i>Emergency Medications: OB/GYN</i> Lab: <i>Scenario based drug selection and administrations with above medications</i>
November 15	Test #3: <i>Covering Chapter 12</i> Lab: <i>Scenario based training with all the above knowledge and methods</i>
November 23	<i>No Class- Fall Break</i>
November 29	Quiz #5: <i>Emergency Medications: OB/GYN</i> Review for Final Exam Lab: <i>Drug Calculation Review</i>
December 6 (Wednesday)	Comprehensive Final Exam

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