

# McLennan C O M M U N I T Y C O L L E G E

WACO, TEXAS

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## **COURSE SYLLABUS**

**AND**

## **INSTRUCTOR PLAN**

**Respiratory Care Pharmacology**

**RSPT - 2317 - 01**

**Amber Hendrickson**

**NOTE: This is a 16-week course.**

### **COVID 19 Notice:**

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at <https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html> on any changes to these guidelines.

AN EQUAL OPPORTUNITY INSTITUTION

SPRING 2022

## RESPIRATORY CARE PHARMACOLGY

2317\_01

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### **Course Description:**

A study of drugs that affect the cardiopulmonary systems. Emphasis on classification, route of administration, dosages/calculations, and physiological interactions.

### **Prerequisites and/or Corequisites:**

Rspt 1371

### **Course Notes and Instructor Recommendations:**

**Lack of computer or Internet access will not be a reason to accept late work.**

### **Instructor Information:**

Instructor Name: Amber Hendrickson

MCC Email: [ahendrickson@mclennan.edu](mailto:ahendrickson@mclennan.edu)

Office Phone Number: 254-299-8369

Office Location: HP #131

Office/Teacher Conference Hours:

- Tuesday 8:00 AM-9:15 AM
- Thursday 8:00 AM-9:15 AM
- Friday 9:00 AM-11:30 AM

### **Required Text & Materials:**

Title: Integrated Cardiopulmonary Pharmacology

Author: Colbert and Gonzales III.

Edition: 5th

Publisher: BVT Publishing

ISBN: 987-1-5178-0507-4

**MCC Bookstore Website:** <http://www.mclennan.edu/bookstore/>

### **Methods of Teaching and Learning:**

**Instructional methods include:** lectures, reading assignments, quizzes, exams, and in class problem-based learning activities.

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### **Course Objectives and/or Competencies:**

The student will:

1. Understand general pharmacologic terms and references.
2. Understand general pharmacokinetics.
3. Calculate dosages from percentage-strength solutions.
4. Understand the pharmacology of bronchodilator and Mucokinetic preparations and other respiratory drugs
5. Understand the pharmacology of anti infective agents, vaccines, vasoactive agents, anticoagulants and thrombolytics, anti inflammatory agents, inotropic agents, sedative/hypnotics and analgesics, artificial surfactants, diuretics, and muscle relaxants.
6. Understand the concept of conscious sedation.
7. Familiarize with Narcotic and Benzodiazepine Antagonist.

### **Course Outline or Schedule:**

Date	
1/11	Orientation
1/13	Ch. 1 General Principles of Pharmacology Part 1, 2, and 3
1/18	Ch. 1 Pharmacokinetics and Pharmacodynamics Part 4 and 5 and Abbreviations
1/20	Exam #1 Review
<b>1/25</b>	<b>Exam # 1</b>
1/27	Ch. 2 Drug Dosage Calculations
2/01	Ch. 2 Drug Dosage Calculations
2/03	Ch. 3 Autonomic Nervous System
2/08	Ch. 4 Medicated Aerosols
2/10	Exam # 2 Review
<b>2/15</b>	<b>Exam # 2</b>
2/17	Sympathomimetic (Adrenergic) Bronchodilators

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2/22	Ch. 5 Parasympatholytic (anticholinergic) Bronchodilators
2/24	Ch. 5 Xanthine Bronchodilators
3/01	Exam 3 Review
<b>3/03</b>	<b>Exam # 3</b>
3/08	Spring Break!
3/10	Spring Break!
3/15	Ch. 6 Mucokinetics – Mucus controlling agents, decongestants and wetting agents
3/17	Ch.7 Inflammatory Process, Corticosteroids, Antiasthmatic Drugs, and Antiasthmatic Monoclonal Antibodies
<b>3/22</b>	<b>Exam # 4</b>
3/24	Pulmonary Vasodilators  Endotracheal Drug Installation
3/29	Ch. 6 Surfactants
3/31	Ch. 8 Antimicrobial and Anti-Infective Agents
4/05	Ch.14 Pharmacologic Treatment of Respiratory Infectious Disease
<b>4/07</b>	<b>Exam # 5</b>
4/12	Ch. 11 Neuromuscular Blocking agents, Conscious Sedation, Sedatives/Hypnotics, and Analgesics and  Narcotic Antagonist/ Benzodiazepine Antagonist
4/14	Ch. 9 Cardiac and Anti Arrhythmic Agents
4/19	Ch. 9,10, & 15 Heart Failure and Blood Pressure

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4/21	Ch. 10 Anticoagulants and Thrombolytics
<b>4/26</b>	<b>Exam # 6</b>
4/28	Final Exam Review
<b>5/05</b>	<b>Final Exam 11:10-1:10</b>

### **Course Grading Information:**

The grading will be based on a percentage system. Each examination will be worth a total of 100%. The grade the student will receive on any examination will be the percent correct the student attains on that test. The scale will be as follows:

90% - 100% = A

80% - 89% = B

75% - 79% = C

60% - 74% = D

59% and below = F

At the end of the semester the average percentage grade that the student obtained in the semester will be the student's grade for the course. (Example: a course grade of 88.5 = 89, is a B. A course grade of 89.4 = 89 is also a B. A course grade of 89.5 is an A)

Grades will be posted on Brightspace

The student must obtain at least a grade of C or better in all courses within the Respiratory Care curriculum, before the student may successfully complete the program. If a student makes less than 80% on an exam or consistently less than 80% on IRA's he/she must make an appointment to see me.

### **Evaluation:**

IRA Quizzes – 20% of the course grade

TRA Quizzes – 10% of the course grade

Exams – 70% of the course grade

- Exam 1- 13% of exam weight
- Exam 2- 13% of exam weight
- Exam 3- 13% of exam weight
- Exam 4- 13% of exam weight
- Exam 5- 13% of exam weight
- Exam 6- 13% of exam weight
- Final Exam- 22% of exam weight

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If a student fails to appear for the test date, a grade of zero (0%) will be awarded for that exam. Please see **Make Up Work Policy** below. **HINT:** a family vacation, a night on the town, a hang-over, a shopping trip, car trouble, a rainy day, a Thanksgiving family reunion, a Christmas event, a friend's wedding, rehearsal dinner, getting the date wrong in your planner, or not being ready for the test are **NOT** examples of a college approved absence. Any date/time conflicts must be resolved with the instructor **BEFORE** the exam.

**NOTICE:** All unit exams and the Final exam are electronic. Exams will be administered via computer on Brightspace.

**Testing Policies and Procedure for Security Measures:**

- All student possessions will be left at the front of the room during an exam and IRA/TRA quiz or at the instructors discretion.
- No smart phones/cell phones or smart watches/watches (Apple, Samsung, Fitbit etc.) are allowed on the desk or on an arm during an exam or quiz.
- No sunglasses, hats, visors, or hoodies will be worn during an exam or quiz.
- Students may use ear plugs if needed.
- No food or drink on the desk during exams or quizzes.
- Watches/Smart Watches & Smart phones/cell phones will be placed in backpack or purse during the exam or quiz & may NOT be taken out until after student is dismissed from the exam or quiz.
- Students may use smart phone/cellphones & smart watches/watches after the class is dismissed from the exam or quiz.

**Exam and Quiz Review –**

The purpose of the exam and quiz review is to provide a learning experience for the student. Exams and quizzes must be reviewed in the presence of an instructor. There will be no note taking during the exam or quiz review process; no cell phones will be out during the review.

**Late Work, Attendance, and Make Up Work Policies:**

Students are responsible for all material presented or assigned in class and will be held accountable for such materials in the determination of course grades.

If a student misses an exam, the student will be permitted to make up the exam if the following occur: the student must **notify the instructor, and** provide proof of **1)** illness, or illness of a

family member for whom the student is a caretaker (e.g., single parent), **2)** death in the family **3)** approved college activity or **4)** observance of a religious holy day. The student will be permitted to make up missed exams missed.

Exams will be made up in the MCC testing center **within one week** following the date the exam was administered. **If a student fails to follow these instructions for making up an exam, the student will receive a zero for that exam.**

Also, the instructor has the prerogative of determining whether a student may make up work missed due to absences for other reasons. It is the student's responsibility to inform the instructor of the reason for an absence and to do so in a timely fashion.

**Student Behavioral Expectations or Conduct Policy:**

*"Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity."*

**All cellular phones, tablets, laptops, and smart devices must be turned off at the beginning of class and out of the teacher's sight.**

Responding to emergency phone calls must be conducted outside the classroom. Once you are finished with your emergency phone call please come back into the classroom quietly. No personal phone calls (non-emergency) will be allowed during class. If you need to use the restroom, while in class, please excuse yourself quietly and return to class in a timely and quiet fashion. **You may not leave the classroom during exams or quizzes.**

**Texting during class not pertaining to classwork** will result in a 0 for all graded items for that day.

**Students may use laptop computers, tablets, or smart phones** to access class work during class. Accessing other material or web sites during class will result in a 0 for all graded items for that day. **NO EXCEPTIONS**

**Students are expected to be in class on time.** If the student cannot be in the classroom by the time class starts, or if the student must leave the classroom for an emergency, the student will quietly pick up course materials and leave the classroom. **The students' cooperation is required and appreciated.**

Students who commit violations of academic integrity should expect serious consequences. For further information about student responsibilities and rights, please consult the McLennan website and your Highlander Student Guide. Students who cheat or plagiarize will receive a zero for the assignment and are subject to suspension.

- The term “cheating” includes, but is not limited to:
  - (1) use of any unauthorized assistance in taking quizzes, tests or examinations;
  - (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems or carrying out other assignments; or (3) the acquisition, without permission, of tests or other academic material belonging to a member of the MCC faculty or staff.
- The term “plagiarism” includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials. Collaboration in the completion of course work is prohibited unless explicitly permitted by the instructor. Where such collaboration is permitted by the instructor, students must acknowledge any collaboration and its extent in all submitted work.

**ALL EXAMS ARE CLOSED BOOK AND PROCTORED.** If the instructor suspects that a student is cheating, the student will be asked to leave the class, immediately, and will receive an F (zero) on that quiz/exam. The student will then be referred to Student Conduct for disciplinary action.

The Director of the Respiratory Care Technology Program and the Dean of Allied Health will be notified, in writing, of the incident.

### **Remediation Plan – Academic Courses**

When a student is struggling in the classroom, the faculty will respond, proactively. Students that consistently score less than 80% on their daily F2F quizzes or score less than 80% on any exam will be required to complete an activity of remediation assigned by the instructor of the course immediately following. The activity requirements will vary as they will be customized according to factors such as the students' needs, the purpose of the assignment, its content, etc., and the instructor will maintain all records of completion. Students that fail to complete the required remediation activities will receive an “Incomplete” (“I”) grade for the course, regardless



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of overall passing grade point average, until all work is submitted. An “Incomplete” (“I”) in any course must be resolved prior to the start of the following semester or the resulting grade will convert to an “F” and the student will not pass the course.

**[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)**

**(<https://www.mclennan.edu/highlander-guide/policies.html>)**

Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.

**Absence from 25% of classes (F2F and Thursday online check ins) (8)** will be taken as evidence that a student does not intend to complete the course, and the student will be withdrawn from the course with a grade of W. The instructor may reinstate the student if satisfied that the student will resume regular attendance and will complete the course.

If the student’s 25 percent absences are reached after the official drop date, the instructor may assign a W, if the student is passing and requests to be withdrawn.

However, if a student who is not passing reaches the 25 percent point after the official drop date, the student will receive an F. In extenuating circumstances, the instructor may assign a W to a student who is not passing.

### **Subject to Change Disclaimer**

The policies, regulations, procedures, and fees associated with this program are subject to change without prior notice, if necessary, to keep College and program policies in compliance with State and Federal laws and/or with rules related to the programs’s accrediting agency. The College and the program reserve the right to change curricula, rules, fees, and other requirements, of whatever kind, affecting students in any way. The provisions of this document do not constitute a contract, express or implied, between any applicant, student, faculty, or staff member and McLennan Community College or this program.

# McLennan

C O M M U N I T Y

## COLLEGE

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## ACADEMIC RESOURCES/POLICIES

### **Accommodations/ADA Statement:**

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit [www.mclennan.edu/disability](http://www.mclennan.edu/disability).

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

[disabilities@mclennan.edu](mailto:disabilities@mclennan.edu)

254-299-8122

Room 319, Student Services Center

### **Title IX:**

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at [titleix@mclennan.edu](mailto:titleix@mclennan.edu) or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>.

Go to McLennan's Title IX webpage at [www.mclennan.edu/titleix/](http://www.mclennan.edu/titleix/). It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

**Student Support/Resources:**

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact a Success Coach by calling (254) 299-8226 or emailing [SuccessCoach@mclennan.edu](mailto:SuccessCoach@mclennan.edu). Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

**MCC Foundation Emergency Grant Fund:**

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at [https://www.mclennan.edu/foundation/docs/Emergency\\_Grant\\_Application.pdf](https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf).

**MCC Academic Integrity Statement:**

Go to [www.mclennan.edu/academic-integrity](http://www.mclennan.edu/academic-integrity) for information about academic integrity, dishonesty, and cheating.

**Minimum System Requirements to Utilize MCC's D2L|Brightspace:**

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

**Minimum Technical Skills:**

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

**Backup Plan for Technology:**

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

**Email Policy:**

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails.

**Instructional Uses of Email:**

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

**Email on Mobile Devices:**

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email [Helpdesk@mclennan.edu](mailto:Helpdesk@mclennan.edu) for help.

**Forwarding Emails:**

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

**Disclaimer:**

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.