

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

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

Neonatal/Pediatric Cardiopulmonary Care

RSPT 2353 01

**Marighny Dutton
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.

Course Description:

A study of neonatal and pediatric cardiopulmonary care.

Prerequisites and/or Corequisites:

RSPT 2414

Course Notes and Instructor Recommendations:

None

Instructor Information:

Instructor Name: **Marighny Dutton**

MCC E-mail: mdutton@mclennan.edu

Office Phone Number: (254) 299- 8132 with voicemail

Office Location: HP #127

Office/Teacher Conference Hours:

- Tuesday: 8:30 AM –9:30 AM
- Thursday: 8:30 AM –9:30 AM
- Friday: 9:30AM -11:30 AM and 1:00 PM -2:00 PM

By appointment – call (254) 299 – 8132 or email @ mdutton@mclennan.edu

Instructor Name: **Amber Hendrickson**

MCC E-mail: ahendrickson@mclennan.edu

Office Phone Number: (254) 299 – 8369 with voicemail

Office Location: HP #131

Office/Teacher Conference Hours:

- Monday and Wednesday: by appointment or email
- Tuesday 8:00 AM – 9:15 AM
- Thursday: 8:00 AM – 9:15 AM
- Friday: 9:00 AM – 11:30 AM

By appointment – call (254) 299 – 8369 or email @ ahendrickson@mclennan.edu

Required Text & Materials:

1. Title: Neonatal and Pediatric Respiratory Care; Author: Brian K Walsh; Edition: 5th 2019; Publisher: Elsevier; ISBN – 978-0-323-47947-9
2. Title: Mosby's Respiratory Care Equipment; Authors: J.M. Cairo; Edition: 10th, 2018; Publisher: Elsevier Mosby;
3. Title: Egan's Fundamentals of Respiratory Care, Authors: Scanlan, Stoller and Heuer, Edition: 12th, 2018; Publisher:

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

Methods of Teaching and Learning:

The methods to evaluate learning in this class include written exams, activities, quizzes, final exam, classroom,. Each day's assignment will include:

Objectives:

Use the objectives as a tool to determine exactly what you should be learning from the readings and lectures. You should be able to address each of these objectives in your own words in self-testing and studying for the quizzes and exams.

Reading Assignment:

You will have a reading assignment twice per week. Be prepared to discuss what you've read.

Lecture Slides:

The lecture slides (PowerPoint) should be used as a study TOOL, not to replace your readings. The recorded lectures provide a nice visual outline of the reading assignment for you to study after reading the assignments.

Problem solving activities will be assigned during each class.

During class activities, teams will work together to solve new problems based on knowledge gained from the on-line lectures.

Daily in class Quizzes:

- An **Individual Readiness Assessment (IRA)** quiz is administered at the beginning of each class. This quiz covers information presented in the on-line lectures. The quiz is a closed-book, secure exam. IRA scores are a component **(20%)** of the Daily Grades.
- Students will submit a **Team Readiness Assessment (TRA)** quiz during each class. Team members will work on this quiz jointly and submit the completed quiz for the entire group. Each team member will receive the same TRA quiz grade. TRA scores are a component **(10%)** of the Daily Grades.

The lowest IRA and TRA grade will be exempted. After this one exemption, missed quizzes, leaving after the quiz, using phone during the quiz, or leaving class early will earn a zero.

NO EXCEPTIONS.

Course Objectives and/or Competencies:

The student will be able to:

1. Explain gestational development and fetal-neonatal transition.
2. Understand antenatal assessment and high risk delivery

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3. Examine and assess the neonatal and pediatric patient
 4. Assess radiographic images of the newborn and pediatric patient
 5. Manage the respiratory care of a newborn with respiratory distress syndrome.
 6. Manage oxygenation and ventilation of the newborn and pediatric patient
 7. Manage the airway of the newborn and pediatric patient
 8. Analyze and monitor oxygenation, ventilation and cardiovascular status of the newborn and pediatric patient
 9. Treat various pulmonary conditions with oxygen, aerosols, airway clearance/hyperinflation, and gas mixtures
 10. Describe and explain the cause, describe the clinical features and diagnostic testing and treatment for these problems:
 - a. Neonatal pulmonary disorders
 - b. Surgical disorders
 - c. Sleep disorders
 - d. Parenchymal disorders
 - e. ARDS
 - f. Shock
 - g. Asthma
 - h. Cystic Fibrosis
 - i. Pediatric trauma
 - j. Congenital anomalies –
 - 1) Abdominal defects - congenital diaphragmatic hernia, gastroschisis and omphalocele
 - 2) Airway abnormalities – Choanal atresia, Robin sequence, laryngomalacia, and tracheoesophageal fistula
 - 3) Acyanotic heart defects – atrial septal defect, ventricular septal defect, atrioventricular septal defect, aortic stenosis, pulmonic stenosis, coarctation of the aorta and double aortic arch
 - 4) Cyanotic heart defects – Tetralogy of Fallot, total anomalous pulmonary venous return, transposition of the great arteries, hypoplastic left heart syndrome, Ebstein anomaly and truncus arteriosus
 - k. Neuromuscular disorders – muscular dystrophy and spinal muscular atrophy
 - l. Epiglottitis and croup
 11. Apply ethical principles in the respiratory care of perinatal and pediatric patients
 12. Apply principles of palliative and end of life care in the respiratory care of neonatal and pediatric patients

Course Outline or Schedule:

The course schedule is flexible and subject to change. Any changes in the course schedule will be posted as an announcement on Brightspace

DATE	TOPIC
1/11	Review Syllabus
1/13	Ch. 1 & Ch. 2 Fetal lung development, Gas exchange Circulation

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1/18	Ch 3 Antenatal Assessment High Risk Delivery
1/20	NRP
1/25	NRP
1/27	Ch. 4 Examination & Assessment of the Neonatal and Pediatric
2/1	Exam 1
2/3	Ch. 6 Radiographic Assessment
2/8	Ch. 8 Invasive Blood Gas Analysis Cardiovascular Monitoring
2/10	Ch. 9 Noninvasive Monitoring
2/15	Ch. 10 Oxygen Administration Ch. 11 Aerosols & Administration Ch. 12 Airway Clearance Technique and Hyperinflation Therapy
2/17	Exam 2
2/22	Ch. 13 Airway Management
2/24	Ch. 14 Surfactant Replacement
3/1	Ch. 18 Gas Mixtures
3/3	Exam 3
3/8 & 3/10	SPRING BREAK!!!!
3/15	Ch. 15 Noninvasive Mechanical Ventilation & CPAP of the Neonate
3/17	Ch. 16 Noninvasive Mechanical Ventilation of the Infant and Child
3/22	Ch. 17 Invasive Mechanical Ventilation of the Neonate and Pediatric Patient
3/24	Ch. 19 Extracorporeal Membrane Oxygenation
3/29	Exam 4
3/31	Ch. 22 Neonatal pulmonary Disorders
4/5	Ch. 23 Surgical Disorders in Childhood that Affect Respiratory Care
4/7	Ch. 24 Congenital Cardiac Defects
4/12	Ch. 25 Pediatric Sleep-Disordered Breathing

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	Ch. 26 Pediatric Airway Disorders and Parenchymal Lung Diseases
4/14	Ch. 27 Asthma Ch. 28 Cystic Fibrosis
4/19	Ch. 29 Acute Respiratory Distress Syndrome Ch. 30 Shock
4/21	Ch. 31 Pediatric Trauma
4/26	Ch. 33 Neurologic and Neuromuscular Disorders
4/28	Final Exam Review
5/3	Final Exam

Course Grading Information:

The grading will be based on a percentage system. Each assignment or examination will be worth a total of 100%. The grade on any assignment or examination will be the percent correct of the total parts for that assignment or examination. The grade scale will be as follows:

A – 90 to 100%

D – 60 to 74%

B – 80 to 89%

F – less than 60

C – 75 to 79%

At the end of the semester the average percentage grade will be the course grade for the semester. **(Reminder:** 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)

NOTE: Grades will be posted on Brightspace. A grade of **“C” or better** defines a passing grade for this course and **all other RSPT courses**. Respiratory Care Technology Program students are required to maintain at least **75% average** in all respiratory care courses.

Evaluation:

Daily Grades: Individual Readiness Assessment – 20%;

Team Readiness Assessment – 10%

Unit Exams: 50% of the total grade

Final Exam: 20% of the total grade

Unit Exams including the Final Exam

Five Unit Exams, including the Final Exam constitute **70%** of the total course grade. 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. 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.

Computer Testing Software:

You may experience technical issues with computer testing software. Please raise your hand if you are experiencing a technical problem during an exam. If needed, the faculty will re-set your exam.

Follow these rules during computer exam:

- Save each answer before moving on to the next question
- Do not use scroll button during test (this can possibly change the answer you selected)

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 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.

W - WITHDRAWAL - This grade is given for an instructor- or student-initiated course withdrawal through the 60 percent point in the semester or term. After the 60 percent point, an instructor may authorize a course withdrawal and assign either a W, if passing work was being accomplished, or an F if the student was failing the course. In extenuating circumstances, the instructor may assign a W to a student who is not passing through the last regular class day of a semester or term.

I - INCOMPLETE - This grade is given when a course is incomplete because of a student's absence caused by illness or other reasons acceptable to the instructor. To be eligible for this grade, the student must have essentially completed the course. The work remaining should be of such a nature as to not require class attendance. If the work is not made up within the following long semester, an Incomplete (I) will be changed to an F, and the course must be repeated if credit is to be given.

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.

TESTING CENTER INFORMATION:

Instructional testing is offered Monday- 8:30 a.m.-8:00 p.m. and Tuesday, Wednesday, Thursday from 8:30 a.m.-6:00 p.m. On Friday, testing is available from 11:30 a.m.-5:00 p.m.

Proctored Exam Guidelines for Students with accommodations and/or make up EXAMS

Proctored testing is offered Monday-Friday. **The latest a student may schedule an appointment depends on the time limit set for the exam. Exams are picked up 10 minutes prior to closing, so students should consider this when scheduling their exams.**

1. All students are responsible for registering for their exams through RegisterBlast scheduling software, available at www.registerblast.com/mclennan.
2. Students approved for and requesting a human reader or scribe must request these services 24 business hours(1 working day) in advance.
3. All students must bring a valid, **unexpired** government-issued ID to be allowed to test. Acceptable forms of ID include a driver's license, state ID card, passport, military ID, national ID, tribal ID, naturalization card, certificate of citizenship, or permanent resident card (Green Card). Photos must be clear and recognizable. A photo or photocopy of an ID is not acceptable.
4. Students should bring only items approved for testing. No prohibited items are allowed in the testing center. This includes sunglasses, hats/caps, backpacks, bags, purses, hooded garments, jackets/coats, pocketed sweaters, food/drinks, unauthorized calculators, unauthorized textbooks and study materials, cell phones, smart watches, or any device which can receive or transmit a wireless signal (unless permitted as a medically documented device, authorized testing accommodation, or for religious purposes).
5. Children under the age of 18 are not allowed to be left unattended in the Testing Center or any other area of the college during testing.
6. Students should arrive 10 minutes prior to their scheduled appointment time for check-in.
7. Students may reschedule their exam online through RegisterBlast or by contacting the MCC Testing Center (254-299-8453 or testingcenter@mclennan.edu) prior to their scheduled appointment time.
8. **Students who arrive later than 10 minutes past their scheduled appointment time, are considered late and will not be allowed to test, and will be required to register for a new testing appointment.**

The MCC Testing Center is located on the 2nd floor of the Student Services Center. Need help or have questions? Contact the Testing Center at 254-299-8453 or testingcenter@mclennan.edu

Cell phones and other electronic devices, and PERSONAL TELEPHONE CALLS:

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 placed in a designated area set by the instructor. This also includes smart watches, Fitbits, etc.

This is NOT optional. If you choose to keep your device in a book bag or purse, you **MUST** place this book bag or purse in the instructor's designated area until all quizzes are completed. If a student is caught with any of the above devices during ANY portion of the daily quiz or Exam, the student will immediately receive a ZERO on the quiz or Exam, be referred to the Vice President of Student Services for disciplinary action and be subject to suspension.

NO EXCEPTIONS.

Under extraordinary circumstances and with permission, the student may receive emergency phone calls if placed on vibrate and placed on the instructor's desk during daily quizzes. Responding to emergency phone calls must be conducted outside the classroom. Take your books and personal items with you when you leave to answer the call. You won't be able to return to the classroom. No personal phone calls (non-emergency) will be allowed during class.

Texting during class not pertaining to classwork will result in withdrawal of that student from this course.

Students may use lap top computers, tablets or smart phones to access class work with permission during class, after the daily quizzes. Please send an email to your instructors stating that you will be using one of these devices to access your class work, a smart device, computer, or tablet during class. Accessing other material or web sites during class **WILL RESULT** in withdrawal of that student for this course. **NO EXCEPTIONS.**

Regular and punctual attendance is expected of all students, and a complete record of attendance will be maintained for the entire length of each course. Students will be counted absent from class meetings missed, beginning with the first official day of classes. Students, whether present or absent, are responsible for all material presented or assigned for this course and will be held accountable for such materials in the determination of course grades.

Absence from 25% classes, (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.

Students are expected to be in class, on time.

Due to COVID, the doors will remain open at all times. There will be a designated ENTER and EXIT door. 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, and receive zeros for the daily quizzes. **The students' cooperation is required and appreciated.**

[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.

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C O M M U N I T Y

COLLEGE

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.

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

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 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/. 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. 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.

MCC Academic Integrity Statement:

Go to 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 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.