



Robert D. & Carol Gunn
College of Health & Human Services

Theoretical Applications
RESP 4432
Spring 2020

Instructor: Tammy Kurszewski, DHSc,
RRT-ACCS

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Office: Centennial Hall, Office 420G

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Class Meeting: Centennial Hall 334, 8:00-
9:10

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Office Hours: By appointment

Audience: Senior Respiratory Care
Students

Course Description:

The focus of this lecture class is to provide the student with an assessment of their educational strengths and weaknesses with respect to the practice of respiratory care. Topics include an assessment of the following examinations: therapist multiple-choice exam, clinical simulations, and if time permits, neonatal/pediatric exam. Passing an exit mock written registry examination is required.

Course Objectives:

Upon completion of this course, the student will be able to:

- To demonstrate mastery of the essential knowledge, skills and abilities required of an entry-level respiratory therapist.
- Review existing data, collect additional data and evaluate all data to determine and defend the appropriateness of the prescribed respiratory care plan.

Required Course Materials and Text:

Persing, G. (2016). *Respiratory Care Exam Review*. St. Louis, MO: Elsevier Saunders.

Elsevier Adaptive Quizzing for Respiratory Care – Classic Version, 1st Edition (available through your Evolve Account)

Kettering Course Review Seminar (January 22nd through the 24th), Midwestern State University, Wichita Falls, Texas

Recommended Texts and Resources:

National Board for Respiratory Care - <https://www.nbrc.org/>

Lindsey Jones Exam Review - <http://lindsey-jones.com/>

Oakes Academy - <https://www.oakesacademy.com/>

RT Board Review - <https://rtboardreview.net/>

Tutorial Systems - <https://www.tutorialsystems.com/index.cfm>

Scanlan, C., Heuer, A., & Rodriguez, N. (2019). *Comprehensive Respiratory Therapy Exam Preparation Guide (Third Edition)*. Burlington, MA: Jones & Bartlett Learning.

Anthony Vargas Review – Contact Dr. K if you would like more information.

Attendance and Punctuality:

Regular class attendance is required. No distinction is made between excused and unexcused absences unless the absence has been cleared through the office of the Dean of Students, Athletic Department, Academic Affairs, Faculty, or Program Chair. If a student misses a lecture, it is the student's responsibility to work with other class members to determine what material was missed. Please refer to the MSU Student Handbook for more information.

1 day missed = no point deduction off of final grade

2 – 4 days missed = 5 point deduction off of final grade

5 + days missed = 10 point deduction off of final grade

**Please note that two days tardy= one absence. Excessive tardiness will not be tolerated.

Please note upon successful completion of the Mock Therapist Multiple Choice Exam at the High Cut Score, classroom attendance will no longer be required. Course content will be completed online for the remainder of the semester.

Teaching Strategies:

Independent reading assignments, class discussions, online quizzes, classroom assignments, module exams and mock therapist multiple choice examinations.

Missed Quizzes or Other Graded Item Policy:

Anything not completed and handed in on time will be subjected to a "0" for that specific grade. Please talk with your professor, prior to the due date, regarding circumstances that may prevent you from completing an assignment. All assignments must be completed by end of class on the date due (with the exception of online quizzes due by 11:59 pm on the date due).

Approximate Grading Scale:

A: 90-100

B: 80-89

C: 75-79

D: 60-74

F: 59 and below

Grade Items and Grade Determination:

Assignments	Grade Percentage
Quizzes/Assignments	50%
Module Exams	30%
Content Mastery Areas	10%
Reflective Report/Study Plan	10%

Course Requirements:

KETTERING REVIEW SEMINAR:

As a requirement for this course, Midwestern State University will be offering a Kettering Exam Review Seminar on campus. This is a 3-day seminar students are expected to purchase and attend in order to successfully complete the course. The seminar will be held in Centennial Hall, Room 334, on Tuesday, January 21st through Thursday, January 23rd from 8am to 5pm. This seminar will provide each participant with a comprehensive review of Basic and Advanced Respiratory Care along with a step-by-step method of preparation for successful completion of both the Therapist Multiple Choice Exam as well as the Clinical Simulation Exam.

In the event that the student wishes to not attend the review seminar, an alternate assignment consisting of a 20 page literature review of best practices in respiratory therapy with an additional appendix addressing successful study strategies and testing techniques will be required for submission. Please contact the instructor of this course for additional details associated with this alternate assignment.

PARTICIPATION/DISCUSSION:

In all classroom discussions students are expected to be present as well as:

- 1.) Raise thoughtful questions
- 2.) Incorporate content from readings
- 3.) Build on the ideas of others
- 4.) Synthesize across readings and discussions
- 5.) Expand the class' perspective
- 6.) Appropriately challenge assumptions and perspectives

QUIZZES:

The student will read the chapter(s), supplemental materials, and/or power point presentations associated with each module. All reading assignments are mandatory and the student's comprehension of the content will be in the form of a quiz. Each quiz will consist of multiple-choice, and multiple, multiple-choice questions (similar to

board exam questions) and will be accessed via Elsevier Adaptive Quizzing for Respiratory Care – Classic Version, 1st Edition.

ASSIGNMENTS:

The student will have required assignments associated with some modules within the course (i.e. Kettering Workbook Assignments, Practice Exams, Practice Quizzes, Short Essays, etc.). Please note that some of these assignments may be completed as independent study projects. All work submitted to the instructor will be considered complete and final, and will be graded as such. These assignments again are mandatory and should reflect the student's comprehension of the content.

MODULE EXAMS:

The student will have two required exams associated with the Module 3 & 4 within the course covering key content areas necessary for success on your self-assessment exam. These exams will allow for evaluation of competency in the required content areas.

NBRC SELF-ASSESSMENT EXAMINATIONS:

As per the student handbook, all students are required to pass the National Board for Respiratory Care (NBRC) Self-Assessment (SAE) Therapist Multiple Choice (TMC) Examination as part of RESP 4432 Theoretical Applications. Please note the SAE is the complete Registered Respiratory Therapist Exam given under true testing conditions and is written by the same group that administers the actual exam required for entry into practice and to obtain the Registered Respiratory Therapist Credential. The student is responsible for all costs associated with the SAE examinations. **The NBRC SAE Therapist Multiple Choice Exam is \$50.** Required SAE are available for purchase via the MSU Marketplace (Therapist Multiple –Choice SAE Form 2015A):

https://secure.touchnet.com/C20137_ustores/web/classic/store_main.jsp?STOREID=42&SINGLESTORE=true

Deadline for payment for the required SAE exam is noted to be January 24, 2020. SAE examinations will be administered on campus on-line in a supervised computer lab setting. The examination will be administered under the same guidelines set forth by the NBRC.

EXIT EXAMINATION PASSING REQUIREMENTS:

Students will be required to score at the level of low cut (equivalent to the Certified Respiratory Therapist credential) in order to successfully complete the course. Low cut score on the TMC Exam is noted to be a score of 88 correct answers out of 140 scored-items or 63%. (Please note, TMC high cut score is 94 correct answers or 67%. Students reaching a high cut score of 94 or greater correct answers will be excused from classroom participation.) Students will be required to repeat the examination in the event of failure to obtain a minimum of the low cut score. Please note retaking the exam will be at an additional cost to the student. If the exam is not successfully passed by the end of semester, the student will receive an Incomplete for the course. As per MSU policy, the student will be granted an additional period of time for completion of coursework (i.e. SAE examination). All coursework associated with RESP 4432 Theoretical Applications must be completed within 30 days of the next long semester. Failure to complete coursework will result in an "F" for the course. Please note students that have not completed RESP 4432 Theoretical Applications are not eligible to receive their diploma until they successfully complete the NBRC SAE Therapist Multiple Choice Exam.

****Please note additional NBRC Self-Assessment Examinations are required as part of RESP 4102 Clinical Patient Management and will be addressed as part of that course.

CONTENT MASTERY AREAS:

Students will be assigned content mastery areas through Elsevier Adaptive Quizzing for completion prior to the end of the semester. These content areas will allow the student the opportunity to demonstrate mastery of key content essential to entry into the practice of Respiratory Care. A minimum of 7 Content Mastery Areas are required out of a total of 10 content areas for successful completion of this assignment.

REFLECTIVE REPORTS/STUDY PLAN:

Students are required to compose a reflective report from the feedback they received after completion of their SAE TMC. This reflective report should highlight strengths as well as identify areas of weakness. Areas of weakness identified by the student should also include a plan for remediation in that area (please note, simply stating study more will not suffice). Study plans should be specific in detail to include resources to be used as well as a tentative timeline for completion. Reflective reports will vary in length, but should meet the objectives as outlined above. Please note that this assignment should be written at the baccalaureate level and will be graded for accuracy, completeness, quality, spelling, grammar and integrity. Reflective reports will be submitted via D2L Dropbox. Also, a copy of the student's exam scores should also be included with the submission.

SPRING 2020 TENTATIVE COURSE SCHEDULE:

Module One:

Monday, January 20 th	Martin Luther King Holiday
Tuesday, January 21 st	Kettering Exam Review Seminar - TMC
Wednesday, January 22 nd	Kettering Exam Review Seminar - TMC
Thursday, January 23 rd	Kettering Exam Review Seminar – Clinical Sims

Module Two:

Monday, February 10 th	Team Teach w/Mrs. Owen – Clinical Simulations
Tuesday, February 11 th	Team Teach w/Mrs. Owen – Clinical Simulations
Thursday, February 13 th	Team Teach w/Mrs. Owen – Clinical Simulations
Monday, February 17 th	Team Teach w/Mrs. Owen – Clinical Simulations
Tuesday, February 18 th	Team Teach w/ Mrs. Owen – Clinical Simulations

Thursday, February 20th, 8:00AM - 12:00PM– NBRC SELF ASSESSMENT CLINICAL SIMULATION EXAM, O'Donohue, Room 126

Module Three:

Monday, March 9 th	Syllabus Review/Assessment – Section A
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Tuesday, March 10th

Airway Care – Section B

Module Four:

Thursday, March 12th

Exam #1 (Section A&B)
Basic Therapeutics – Section C

Spring Break – March 16th through March 20th

Monday, March 23rd

Pulmonary Diagnostics/Hemodynamics – Section D

Module Five:

Tuesday, March 24th

Exam #2 (Section C&D)
Mechanical Ventilation – Section E

Thursday, March 26th

Leadership – Mock Interviews

Module Six:

Monday, March 30th

TMC Practice Exam – Full Length

Tuesday, March 31st

TMC Result Review – Study Strategies

Thursday, April 2nd, 2:00PM to 5:00PM – NBRC SELF ASSESSMENT THERAPIST MULTIPLE CHOICE EXAM, Dillard Building Room 304

Module Seven:

Monday, April 6th

TMC Exam Result Review/Study Planning

Tuesday, April 7th

Team Teach w/Mrs. Owen - Practice TMC Exam

Thursday, April 9th

Easter Break

Monday, April 20th

Targeted Review - TMC Exam

Tuesday, April 21st

Targeted Review - TMC Exam

Thursday, April 23rd

Celebration of Scholarship

Module Eight:

Monday, April 27th

TMC/Clin Sim Practice – Breakout Sessions

Tuesday, April 28th

TMC/Clin Sim Practice – Breakout Sessions

Thursday, April 30th

TMC/Clin Sim Practice – Breakout Sessions

Monday, May 4 th	Adaptive Quizzing - Content Mastery
Tuesday, May 5 th	Adaptive Quizzing - Content Mastery
Thursday, May 7 th	Adaptive Quizzing - Content Mastery

Monday, May 11th through May 15th – Finals Week

Below, you will find each day's assignments broken up into modules. I suggest printing a copy of the course schedule as well as each module below to help you stay organized.

Course Modules

Students are encouraged to review the module contents prior to class. See the Course Schedule for specific information about activities and module dates.

Tuesday, January 21st through Thursday, January 23rd:

Module 1 – Course Introduction and Kettering Review Seminar

Objectives:

- Review and understand the requirements as set forth in the of RESP 4432 Theoretical Applications.
- Recognize the standards for successful completion of the exit examination, the NBRC Self-Assessment Therapist Multiple Choice Exam, for the course.
- Complete thorough review of skills and knowledge necessary for entry into the practice of Respiratory Therapy as part of the Kettering Exam Review Seminar.

Student should begin by reviewing the course syllabus prior to first day of class. Students will receive the Kettering National Seminars Comprehensive Review for the Respiratory Therapist Multiple Choice Examination Study Guide, TMC Workbook and Clinical Simulation Workbook on day one of the course. Content covered the remainder of the week as part of the review seminar will be from these three sources. No other assignments are associated with this module.

Monday, February 10th through Thursday, February 20th:

Module 2 – Clinical Simulation Exam Review

Students will focus on the curriculum as outlined in RESP 4102 Clinical Patient Management. This module is team taught by Mrs. Mary Sue Owen and myself. **Please note as part of Module 2, you will complete the NBRC SAE Clinical Simulation as part of RESP 4102 Clinical Patient Management.

Monday, March 9th and Tuesday, March 10th:

Module 3 – Patient Assessment and Airway Care

Objectives:

- Review and mastery of the following content areas:
 - Assessment of the Patient
 - Reviewing of the Patient's Records
 - Bedside Interview and Medical History
 - Physical Examination of the Patient
 - Radiographic Imaging
 - Other Imaging Procedures
 - Lab Testing
 - Electrocardiograms
 - Assessment of the Infant
 - Monitoring Data
 - Pharyngeal Airways
 - Establishing a Patent Airway
 - Managing Acute Airway Obstruction
 - Resuscitation Devices
 - Oral and Nasal Intubation
 - Tracheostomy and Tracheostomy Tubes
 - Laryngectomy and Laryngectomy Tubes

Students should begin by reading Section A- Patient Assessment and B-Airway Care in Kettering as well as Respiratory Care Examination by Persing, Chapter 3-Assessment of the Cardiopulmonary Patient and Chapter 4-Management of the Airway. The student will develop and outline a study plan for completion of review prior to the SAE TMC as well as review study strategies for the Self-Assessment Exam. There will be required homework assignments (Kettering Workbook Activities, EKG Interpretations) and an exam (Kettering Section A&B) associated with this module.

Thursday, March 12th and Monday, March 23rd:

Module 4 - Pulmonary Diagnostics and Therapeutic Procedures

Objectives:

- Review and mastery of the following content areas:
 - Arterial Blood Gases (ABG)
 - Hemodynamic Monitoring
 - Pulmonary Function Testing
 - Bronchoscopy
 - Breathing Techniques
 - Hyperinflation/Lung Expansion Therapy
 - Continuous Positive Airway Pressure
 - Bronchial Hygiene Therapy
 - Humidity and Aerosol Devices
 - Oxygen Administration Devices
 - Sputum Induction

Students should begin by reading Kettering Section D-Pulmonary Diagnostic Testing and Section C-Therapeutic Procedures (in that order) as well as Persing, Chapters 1-Oxygen and Medical Gas Therapy, 2-Humidity and Aerosol, 7- Hyperinflation Therapy, 8- Bronchopulmonary Hygiene Techniques, 14- Respiratory Medications, 13-Neonatal and Pediatric Respiratory Care & 5- Special Respiratory Care Procedures (in that order). There will be required homework assignments (Kettering Workbook Activities, Pharmacology Flashcards, ABG Interpretation Exercises, Hemodynamic Calculations, PFT Interpretations), and an exam (Kettering Section D&C) associated with this module.

Tuesday, March 24th through Thursday, March 26th:

Module 5 - Mechanical Ventilation and Special Procedures

Objectives:

- Review and mastery of the following content areas:
 - Mechanical Ventilation Terminology
 - Equipment
 - Clinical Application of Mechanical Ventilation
 - Initiating Mechanical Ventilation
 - Caring for the Patient Receiving Mechanical Ventilation
 - Weaning or Liberation from the Ventilator
 - Non-Invasive Positive Pressure Ventilation
 - Specialty Medical Gases
 - Thoracentesis
 - Sleep Apnea Studies
 - Chest Tubes and Chest Drainage Systems
 - Cardiopulmonary Stress Testing
 - Broncho alveolar Lavage
 - Infant Apnea Monitoring
 - Cardiac Emergencies
 - Patient Transport
 - Metabolic Studies
 - Indirect Calorimetry
 - End-of-Life Care

Students should begin by reading Kettering Section E-Mechanical Ventilation and Section F-Special Procedures as well as Persing Chapter 11-Ventilator Management, 6-Manual Resuscitation Techniques/Emergency Respiratory Care, 17-Equipment Decontamination and Infection Control, and 15-Respiratory Home Care (in that order). There will be required homework assignments (Kettering Workbook Activities) and a quiz. There will be no content exam for this module.

Monday, March 30th through Thursday, April 2nd:

Module 6 – TMC Exam Testing and Study Strategies

Objectives:

- Complete thorough review of skills and knowledge necessary for successful completion of the National Board for Respiratory Care Therapist Multiple Choice Examination.

- Identify and organize study strategies for NBRC Self-Assessment TMC examination.
- Successfully complete NBRC Self-Assessment Therapist Multiple Choice Examination.

Students will complete a full-length practice TMC exam (not a graded item). Student results will be reviewed individually with each student by a faculty member and a personal study strategy plan will be developed for each student in preparation for the NBRC Self-Assessment TMC Exam. Please note the NBRC SAE Therapist Multiple Choice Exam required for exit will be completed as part of this module.

Thursday, April 2nd, 2:00 PM to 5:00 PM – NBRC SELF ASSESSMENT THERAPIST MULTIPLE CHOICE EXAM, Dillard Building, Room 306

Monday, April 6th through Thursday, April 23rd:

Module 7 – Targeted Review of Content Areas

Objectives:

- Identify subject areas demonstrating low content mastery through evaluation of Self-Assessment TMC Exam.
- Develop individualized study strategies for strengthening of identified areas of improvement.

Students will be given individual reading assignments, review strategies, and study goals based on performance on the Self-Assessment Therapist Multiple Choice Exam. Content areas covered in class will be tailored to address any high-impact deficiencies. Homework assignments will be made based on exam content outcomes and may be independent in nature. There will be no content exam for this module.

Monday, April 27th through Thursday, May 7th:

Module 8 – Content Mastery Demonstration

Objectives:

- Demonstrate competency in the following areas associated with the practice of Respiratory Therapy:
 - Assemble and Troubleshooting Equipment
 - Ensure Infection Control
 - Perform Quality Control Procedures
 - Maintain a Patent Airway Including the Care of Artificial Airways
 - Perform Airway Clearance and Lung Expansion Techniques
 - Support Oxygenation and Ventilation
 - Administer Medications and Specialty Gases
 - Utilize Evidence-Based Medicine Principles
 - Provide Respiratory Care Techniques in High-Risk Situations
 - Assist a Physician/Provider in Performing Procedures

Students will access Content Mastery Quizzes through Elsevier Adaptive Quizzing. In addition to the Content Mastery Demonstration assignment, students are required to complete their Reflective Reports/Study Plan as part of this module. Practice TMC Exams will be available for independent completion throughout this module as well.

American with Disabilities Act (ADA): <https://mwsu.edu/student-life/disability/>

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Support Services in Room 168 of the Clark Student Center, 397-4140.

Please see the instructor outside of class to make any arrangements involving special accommodations. It is the student's responsibility to declare any disabilities. After declaration, preferably at the beginning of each semester, the student needs to contact individual instructors to determine any reasonable accommodations that may be required.

Honor System: <https://mwsu.edu/student-life/conduct/>

All components of HSHS 1013 are designed to represent the efforts of each student INDIVIDUALLY and are NOT to be shared, copied or plagiarized from other sources. When students submit their efforts for grading, they are attesting that abided by this rule.

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 completing other assignments; or (3) the acquisition of tests or other academic materials belonging to the university faculty or staff without permission.

Plagiarism includes, but is not limited to, the use of, by paraphrase or direct quotation without correct citation in the text and on the reference list, the published and unpublished works of another person. Students may NOT submit papers and assignments that they have previously submitted for this or other courses. The use of materials generated by agencies engaged in "selling" term papers is also plagiarism.

Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated in this class. Whenever a student is unsure of whether a situation will be interpreted as academic dishonesty, he/she should ask the instructor for clarification. If students are guilty of academic dishonesty, a grade of "0" will be given for the quiz, assignment, etc. Cases may also be referred to the Dean of Students for possible dismissal from the university.

PLEASE NOTE

By enrolling in this course, the student expressly grants MSU a "limited right" in all intellectual property created by the student for the purpose of this course. The "limited right" shall include but shall not be limited to the right to reproduce the student's work product in order to verify originality and authenticity, and for educational purposes. Specifically, faculty may submit student papers and assignments to an external agency to verify originality and authenticity, and to detect for plagiarism.

Student Honor Creed

"As an MSU Student, I pledge not to lie, cheat, steal, or help anyone else do so."

As students at MSU, we recognize that any great society must be composed of empowered, responsible citizens. We also recognize universities play an important role in helping mold these responsible citizens. We believe students themselves play an important part in developing responsible citizenship by maintaining a community where integrity and honorable character are the norm, not the exception. Thus, we, the Students of Midwestern State University, resolve to uphold the honor of the University by affirming our commitment to complete academic honesty. We resolve not only to be honest but also to hold our peers accountable for

complete honesty in all university matters. We consider it dishonest to ask for, give, or receive help in examinations or quizzes, to use any unauthorized material in examinations, or to present, as one's own, work or ideas which are not entirely one's own. We recognize that any instructor has the right to expect that all student work is honest, original work. We accept and acknowledge that responsibility for lying, cheating, stealing, plagiarism, and other forms of academic dishonesty fundamentally rests within each individual student. We expect of ourselves academic integrity, personal professionalism, and ethical character. We appreciate steps taken by University officials to protect the honor of the University against any who would disgrace the MSU student body by violating the spirit of this creed.