
PHA 6639 - Medication Therapy Management: A Respiratory Focus Summer 2015 - 3 Semester Credit Hours

Course Purpose:

The course is intended to familiarize students with the provision of MTM in patients with **respiratory** disorders that range from common to complex. The student will gain hands-on practice in the core elements of MTM for patients with **respiratory** disorders, including conducting a comprehensive medication therapy review, generating a personalized medication record, designing a medication-related action plan, making pharmacotherapy interventions, and documenting the MTM service. The curricular threads of advanced pharmacotherapy knowledge, communication skills, and essential MTM business principles will be emphasized.

Course Faculty and Office Hours

Course Coordinator:

Karen Riley BScPhm, Pharm D, BCPS, CGP, BCACP, CDE
Adjunct Clinical Assistant Professor
University of Florida, College of Pharmacy
Email: kdriley@ufl.edu
Phone: 519-339-0614 (cell)

Office Hours

Preferred contact method: email

Course Facilitators:

Pam Roehrl, B.S., M.S., Pharm.D.
Email: proehrl@cop.ufl.edu

Karen Riley BScPhm, Pharm.D., BCPS, CGP, BCACP, CDE
Email: kdriley@ufl.edu

Course Faculty:

Please see Appendix A for a list of faculty involved in this team-taught course.

Place and Time of Class Sessions

Lectures are prerecorded and posted on the course website in the Sakai eLearning system. Lectures may be viewed at the student's convenience. The course has one 1.5-hour live online learning session each week. Live sessions are conducted via BigBlueButton and will meet on **Sunday evenings from 8 to 9:30 PM EST, or 10 to 11:30 PM EST, or on Monday evenings from 9 to 10:30 PM EST**, depending on the assigned section.

How This Course Relates to the Learning Outcomes You Will Achieve in the MS-MTM Program:

This course prepares the MS-MTM student to accomplish the following abilities and the related Student Learning Outcomes (SLOs) upon graduation:

- Knowledge SLO: Demonstrate comprehensive knowledge related to a specific discipline within the pharmaceutical sciences.
- Problem-Solving/Critical Thinking SLO: Demonstrate the ability to evaluate a problem that is related to a discipline within the Pharmaceutical Sciences.

This course is one of a series that will develop problem-solving and critical thinking skills and prepare the student to demonstrate comprehensive knowledge in the area of medication therapy management.

Course Objectives

Upon successful completion of this course, the student will be able to demonstrate the ability to perform the following with respect to **respiratory** disorders:

1. Recognize areas of pharmacotherapy knowledge essential to the provision of MTM services.
2. Identify clinical practice guidelines and current scientific literature pertaining to the provision of MTM services.
3. Evaluate scientific literature for use in providing up-to-date, evidence-based, and cost-effective MTM services.
4. Communicate effectively with patients when providing MTM services.
5. Identify barriers to patient communication and design strategies to overcome those barriers.
6. Conduct a targeted or comprehensive medication therapy review (MTR).
7. Identify drug-related problems and recommend rational solutions based on a mastery of pharmacotherapy.
8. Create a personalized medication record for an individual patient receiving MTM services.
9. Design a medication-related action plan, taking into account patient abilities and preferences.
10. Educate patients regarding techniques to improve adherence, decrease the risk of adverse drug reactions, and maximize appropriate and safe medication use.
11. Communicate interventions effectively to physicians and other healthcare colleagues.
12. Document MTM services in a manner sufficient for following patient progress, monitoring patient outcomes, and completing billing statements.
13. Utilize sound business principles in the provision of MTM services

Pre-Requisite Knowledge and Skills

The student must have successfully completed Foundations of MTM I and II.

Course Structure & Outline

Course Structure

The course is offered in a blended learning format that utilizes a combination of face-to-face classroom instruction, on-line learning, and hands-on experiential activities. To meet the standards for course credit assignment this three-credit course requires a minimum of 48 hours of classroom instruction or the equivalent. Since the face-to-face classroom instruction is less than 48 hours, a number of alternative instructional activities comprise the remainder of the equivalent content and serve to fulfill the curricular equivalency standard. Using a combination of live classroom instruction and alternative methods of instruction ensures that the requirements for course credit assignment are fulfilled. An outline of the course activities and their respective contribution to course credit assignment can be found in the accompanying course schedule document.

Course Outline/Activities

Refer to **Appendix B and C**. The course schedule will also be posted separately on Sakai.

Textbooks

NEW - The required textbook for this course is Angaran D, Whalen K, editors. *Medication Therapy Management: A Comprehensive Approach*. New York, NY: McGraw-Hill, 2015. A suggested reference text is Dipiro JT, Talbert RL, Yee GC, et al, eds. *Pharmacotherapy: A Pathophysiological Approach*, 9th ed. Both of these are available free to students via Access Pharmacy in the HSC database.

Instructors may require additional readings such as clinical guidelines, review articles, book chapters, or websites. They may also provide additional resources to supplement the lecture material. Required or recommended readings will be listed under assignments and responsibilities on the course schedule. The readings will be available under the resources tab on the course website.

Active Learning Requirements

- Discussion board posting (3). **All postings need to be done before 6pm Sunday evening prior to the BigBlueButton Session. 50 points will be deducted for late submissions.**
- Weekly live online learning sessions (5)
- Case studies - comprehensive medication review (1)
- Journal evaluation (1)
- Quality Assurance (1)

Feedback to Students

Students will be provided written feedback on all assignments via the eLearning system. In general, written feedback can be expected within one week of assignment submission. In addition, students may schedule an appointment with the instructor if they wish to obtain more detailed verbal feedback. Feedback on exams and quizzes will be available via the eLearning system after 12 noon on the day following the exam or quiz.

Student Evaluation & Grading

Course Evaluation Methods

Written Assignments 25%

- Assignment 1 Journal evaluation 8%
- Assignment 2 Comprehensive Medication Review 8%
- Assignment 3 Quality Assurance Write up - 9%

Quizzes 10%

- Week 2 - 5%
- Week 5 - 5%

Class participation 15%

- Discussion board - 3% (1% each)
- BigBlueButton sessions - 12% (2% each)

Exams 50%

- Midterm exam - 25%
- Final exam - 25%

Grading Scale

Additional information on minus grades is available on the University of Florida website:

<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>.

A	93-100	A-	90.0-92.9
B+	86.6-89.9	B	83.3-86.5
B-	80.0-83.2	C+	76.6-79.9
C	73.3-76.5	C-	70.0-73.2
D+	66.6-69.9	D	63.3-66.5
D-	60.0-63.2	E	<60

Class Attendance Policy

Attendance at the weekly adobe connect sessions is mandatory and participation in the group discussion is required. Because there is 3 opportunities to attend the BigBlueButton sessions, students who know that they will miss an BigBlueButton session should contact the facilitator as soon as possible and arrange to attend another BigBlueButton session. Upon approval of the facilitator only, students may make up a missed session by completing a brief written assignment for a maximum of 2 out of the 6 sessions. Failure to get approval for the missed session prior to the session will result in a mark of zero for the BigBlueButton session. Written documentation of the session content must be submitted to the facilitator no later than 1 week past the missed session.

Quiz/Exam Policy

Online Examinations

The quizzes, midterm, and final examination will be administered online. Online examinations may consist of multiple choice, short answer and/or case-based questions. Thus, online examinations necessitate skills in typing and using a computer. **If you do not have strong keyboard skills, please do not delay in contacting the course coordinator. With early intervention you can be directed to Staff members who are equipped to review your needs.** Please note that it takes time to build these skills and this is not something that can be done at the last minute. To maintain the highest standards of academic integrity, high stakes online examinations may require the use of a proctoring system. More information on the proctoring system may be found at: <http://www.proctoru.com/>

Missing Exams and Make-Up Exam Policy

Scheduled exams should only be missed for **REAL EMERGENCIES**. A student who misses an exam should notify the course coordinator via email within 24 hours. Students with an excused absence may be allowed to take a make-up exam. Make-up exams should be arranged with the course coordinator and administered within two weeks of the original exam date.

Posting of Exam Grades

Exam grades will be posted within one week of the exam. Notice will be provided to the students if there will be a delay in posting of exam grades.

Exam Rebuttals

Students have one week after posting of the exam grades to challenge any exam question. No appeals will be accepted after one week. Written appeals must include the following: **the question number and an evidence-based rationale for why the student feels their response is accurate.** The exam will be regraded, in full, by a third party. Note: the score of a fully regraded exam may increase, decrease, or stay the same. The regraded score will be considered final.

Policy on Old Quizzes and Assignments

Students will not be provided with old quizzes, exams, or assignments.

Assignment Deadlines

Late Assignments

Please submit online assignments early to avert last minute issues with technology. Late submission of assignments will result in a 20% point deduction without adequate explanation and may result in a zero grade, depending on the assignment. Students who experience technical difficulty when submitting assignments electronically must notify the course coordinator as soon as possible.

General College of Pharmacy Course Policies

The College of Pharmacy has a website that lists course policies that are common to all courses. This website covers the following:

University Grading Policies

1. Academic Integrity Policy
2. How to request learning accommodations
3. Faculty and course evaluations
4. Student expectations in class
5. Discussion board policy
6. Email communications
7. Religious holidays
8. Counseling & student health
9. How to access services for student success

Please see the following URL for this information:

<http://www.cop.ufl.edu/wp-content/uploads/dept/studaff/policies/General%20COP%20Course%20Policies.pdf>

Complaints

Should you have any complaints with your experience in this course please contact your course coordinator. If unresolved, contact the COP Senior Associate Dean-Professional Affairs. For unresolved issues, see: <http://www.distancelearning.ufl.edu/student-complaints> to submit a complaint.



University of Florida College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. This course is accredited for 10 hours (1.0 CEUs). ACPE Accreditation number is posted on the course website. To receive credit for this course, you must receive a passing grade and complete the evaluation form.

Other Course Information

Appendix A: Directions for Contacting Faculty & Course Faculty List

Appendix B. Schedule of Course Activities/Topics

Appendix C. Assignments and Learning Responsibilities

Appendix A: Directions for Contacting Faculty & Course Faculty List

Directions for Contacting Course Faculty

All questions on lecture material and course communication will occur through the discussion board on the course website. Discussion boards will be organized by lecture topic and questions should be posted in the appropriate location. The discussion board will be reviewed and questions answered within 3 business days after the posting. If you do not receive a response within 3 business days after posting, please email the course coordinator who will then contact lecture faculty directly. Please see "Course Communication" Section for additional information about communicating with faculty.

Course Coordinator

Karen Riley BScPhm, Pharm D, BCPS, CGP, BCACP, CDE- kdriley@ufl.edu

Dr. Riley is currently an Medication Therapy Management Pharmacy Specialist in Ontario, Canada. She has been involved in the Working Professional Pharm D Program as an Adjunct Clinical Assistant Professor since 2004 in various roles as a facilitator in Detroit and Tampa, Foundations Facilitator and expert presenter in the Renal and Psychiatric courses. She has been a course coordinator for the Masters of Medication Therapy Management for hematology, renal and psychiatry and a group facilitator since 2012. Dr. Riley completed her BScPhm from the University of Toronto and Pharm D from the University of Florida. She is also currently an education coordinator for the Ontario College of Pharmacists, a member of the Practice Committee for the Ontario Pharmacist Association and a member of the Pharmacy Council supporting health care decisions to the Ontario Government. She sits on the Board of Directors for the Alzheimer's Association and the Mental Health Association.

Dr. Riley is a Board Certified Pharmacotherapy Specialist, a Certified Geriatric Pharmacist, a Board Certified Ambulatory Care Pharmacist and a Certified Diabetes Educator. She holds certification in other areas as well which include the following: Certified Parkinson's Educator, Stanford Chronic Disease and Pain Self management educator, a certified immunization provider both in Canada and the US, and the Smoking Cessation certification in Training Enhancement in Applied Cessation Counseling and Health (TEACH). She uses all of her training and skills to provide better care to patients in the community setting and to continue to develop various programs to advance her pharmacist role in for patient care. She was the winner of the 2014 Magnum Opus Award for Ontario. She has published in the areas of nephrology, osteoporosis and Medication Therapy Management. She has presented at conferences for pharmacists at the provincial, national level and international level. She also educates nurses, physicians and the public.

Instructors

Maria Braden, PharmD, CPh mariaecalifornia@yahoo.com

Dr. Braden is currently an Adjunct Professor at Nova Southeastern University Farquhar College of Arts and Sciences, teaching in the Math, Science, and Technology Department. She is also pursuing a Master of Science in Medical Education. Dr. Braden has practiced in community since graduating with her Doctor of Pharmacy from Nova Southeastern University College of Pharmacy, in 2008. She has practiced in multiple community-based pharmacy settings including remote verification, independent pharmacy, and traditional community pharmacy. Dr. Braden has pursued further expertise by obtaining certificates in Physical Assessment and Medication Therapy Management, as well as becoming a consultant pharmacist. Dr. Braden has been actively involved with transitional care, community health management, and providing outcomes focused pharmacist directed services including MTM, anticoagulation, and diabetes monitoring.

Cathy Clark, RRT, AE-C Cathy.clark@bmcjax.com

Registered Respiratory Therapist (RRT) for 15 years and a Certified Asthma Educator (AE-C) since 2009. I have re-established the asthma program at Wolfson Children's Hospital. My responsibilities have included educating patients, families, and staff on the floors, PICU and ED. I am active in the Florida Asthma Coalition and the Association of Asthma Educators.

Lisa Clayville, PharmD Lisa.Martin@PremiseHealth.com

Dr. Martin is the Condition Management Coordinator and Director of the Healthy Living Program at the Center for Living Well located at the Walt Disney World Resort. She received her Doctor of Pharmacy from the University of Maryland and completed a PGY1 residency in Ambulatory Care at Florida Hospital Celebration Health. She is also a Certified Diabetes Educator and Certified Health and Wellness Coach. Prior to her current position, Dr. Martin was on faculty at the University of Florida College of Pharmacy Orlando Campus. Dr. Martin speaks nationally and statewide on the topics of diabetes and immunizations and serves on several committees of the American Pharmacists Association and the Florida Society of Health Systems Pharmacy.

Angela S. Garcia, PharmD, CPh asgarciapharmd@gmail.com

Dr. Garcia received her Doctor of Pharmacy from Nova Southeastern University College of Pharmacy, as well as, completed a Specialized Drug Information Residency. Currently, she is an Assistant Professor at Nova Southeastern University College of Pharmacy practicing in the Center for Consumer Health Informatics Research. Dr. Garcia is completing her Master of Public Health through Nova Southeastern University College of Medicine, where her directed focus of study and research is in public health informatics with a concentration in asthma self-management. She is a working member of the Florida Asthma Coalition, South Florida Asthma Consortium and has been a Community Champion in Asthma Management with Broward County Public Schools since 2008. Dr. Garcia has been a recipient of several honors of distinction including Distinguished Young Pharmacist (2011) and Golden Apple Excellence in Teaching (2011). She is a certified Immunizing Pharmacist, received her certificate in Medication Therapy Management and also holds a license to practice pharmacy in Kansas. Dr. Garcia is the Co-Director for the Women of HOPE/NSU Jamaica Medical Mission, which constitutes of an interdisciplinary team traveling twice annually to provide acute clinic care to indigent patients in rural areas of the island. She serves as a preceptor in Advanced Pharmacy Practice Experiences and co-precepts Field Experiences for students in the NSU MPH program. Her work has appeared in peer-reviewed journals, online textbooks, and in online publications, and she has partnered with practitioners from multiple health professions to provide didactic lectures, continuing education and grant collaborations.

Patricia Louzon, PharmD, BCPS patricia.louzon@flhosp.org

Dr. Patricia Louzon received her Doctor of Pharmacy from the University of Florida College of Pharmacy in 2007. She completed a PGY-1 Pharmacy Residency and a PGY-2 Critical Care Specialty Residency at Orlando Regional Medical Center in Orlando, FL. Dr. Louzon joined Florida Hospital in Orlando in 2009 as a Critical Care Clinical Specialist and is now the Clinical Manager of Critical Care and Emergency Department services. She is an active member of Society of Critical Care Medicine (SCCM), American Society of Health-System Pharmacists and Florida Society of Health-System Pharmacists. Articles by Dr. Louzon have been published in SCCM's national newsletter, Hospital Pharmacy, and Annals of Pharmacotherapy. In addition to her position at Florida Hospital, Dr. Louzon is also a Clinical Assistant Professor, teaching at the University of Florida College of Pharmacy.

Maria Maniscalco, PharmD maria.maniscalco@gmail.com

Dr. Maniscalco earned her Bachelors of Pharmacy in 1997 and practiced in a supermarket pharmacy while attending courses to complete her Doctor of Pharmacy degree in 2002 from St. John's University, N.Y. She completed a Pharmacy Specialty Residency in Ambulatory Care from 2002-2003 with Dr Karen Whalen at Nova Southeastern University (NSU). Dr Maniscalco completed training and received certificates for the following American Pharmacist Association (APhA) programs: Asthma, Diabetes, Immunizations, Medication Therapy Management and NSU Physical Assessment Institute. Dr. Maniscalco is currently a Pharmacy Quality Manager for Optum HouseCalls Pharmacy services where she oversees 80 pharmacists providing MTM as well as other telehealth campaigns. She, along with Mike Schuh, PharmD, MBA, are developers and co-coordinators of the APhA APPM Medication Management Special Interest Group (SIG) as well as she this past year, she created and is currently the Chair of the MM SIG Telehealth Committee. Since 2005, Dr. Maniscalco has served as a Board member of the South Florida American Lung Association and continues to volunteer her time to assist with community outreach programs such a Asthma 101 and COPD Better Breathers club.

Jane McLaughlin-Middlekauff, PharmD, BCACP janerpharmd@yahoo.com

Dr. Jane McLaughlin-Middlekauff earned her Doctor of Pharmacy degree from Drake University in Des Moines, Iowa. She became a Board Certified Ambulatory Care Pharmacist (BCACP) in 2011. Dr. McLaughlin-Middlekauff was an Assistant Professor in the Department of Pharmacy Practice at Nova Southeastern University (NSU) and her clinical practice site at NSU Clinic Pharmacy offered Medication Therapy Management (MTM) and preventative care screenings. She had been an active duty United States Public Health Service (USPHS) Officer working for the Indian Health Service (IHS) in Anchorage, Alaska. During her six years at Alaska Native Medical Center (ANMC), she provided pharmacy services and education to Alaska Native and American Indian patients in the areas of pediatrics, family medicine and anticoagulation.

Charles Peloquin, PharmD , FCCP peloquin@cop.ufl.edu

Prior to coming to the University of Florida, Dr. Peloquin completed a hospital pharmacy residency at Duke University Medical Center, where he also served on the clinical staff. Dr. Peloquin completed a fellowship in Infectious Diseases and Pharmacokinetics at the Clinical Pharmacokinetics Laboratory, Millard Fillmore Hospital, Buffalo, N.Y. For 20 years, he was the Director of the Infectious Disease Pharmacokinetics Laboratory (IDPL) at National Jewish Medical and Research Center, Denver, CO. He now serves as Professor of Pharmacy and Medicine at UF, where the IDPL is now located. Dr. Peloquin and his lab are part of the UF Emerging Pathogens Institute. He also is a consultant to the FDA and CDC.

Karen R. Sando, PharmD, BCACP, CDE ksando@cop.ufl.edu

Dr. Sando joined the UF faculty in September 2010. She earned an Associate of Arts in Pre-Pharmacy at St. Petersburg College in 2004. She went on to the University of Florida and graduated in 2008 with a Doctor of Pharmacy. After completing pharmacy school, she completed a residency specializing in Ambulatory Care through the University of Florida. After her residency, she worked for Shands Jacksonville in the UF Family Medicine clinic conducting pharmacy services in anticoagulation, pain management, and diabetes. Dr. Sando currently is the coordinator for clinical pharmacy services for Area Health Education Centers (AHEC). She offers pharmacist-run services in diabetes, anticoagulation, hypertension, hyperlipidemia, and smoking cessation at a UF Health Family Medicine clinic outside of Gainesville, FL. Dr. Sando also serves as a preceptor for 4th year pharmacy students on ambulatory care rotation. She also serves as residency program director for a PGY-2 in ambulatory care.

Michael J. Schuh, BS, PharmD, MBA mschuhrx1@gmail.com

Michael Schuh has more than 25 years of experience managing pharmacies and small businesses. Dr. Schuh received a Bachelor of Science in pharmacy from the University of Florida. He obtained a Master's of Business Administration from the University of Phoenix and a Doctor of Pharmacy from Nova Southeastern University. Dr. Schuh holds a Florida Pharmacist Consultant License and a Florida Pharmacist license. He is the former Outpatient Pharmacy Operations Manager of Mayo Clinic Jacksonville and has managed various other chain and independent pharmacies in the state of Florida in his career. Dr. Schuh is a clinical, ambulatory pharmacist and an Assistant Professor of Pharmacy, Family and Palliative Medicine at Mayo Clinic Florida. Currently, he serves as the primary clinical provider and coordinator of Mayo Clinic Florida's MTM pharmacy practice serving lung, kidney and liver transplant, bariatric and pharmacotherapy patients. Dr. Schuh is currently a Mayo Clinic Bronze Level Quality Fellow. He is an active member of the Northeast Florida Society of Health System Pharmacists, Florida Society of Health System Pharmacists, American Pharmacists Association, and Florida Pharmacy Association. On a national level he is past Chair of APhA's Academy of Pharmacy Practice and Management Administrative Section, Executive Committee, and an APhA Congressional Key Contact. He has served as an active member of APhA's MTM Task Force and is co-founder and past coordinator of the APhA Medication Management Special Interest Group where he served as Chair of both the Education and Business/Practice Model Committees. Dr. Schuh is also a Clinical Assistant Professor of Pharmacy Practice at the University of Florida, Coordinator of the UF MTM Master of Science program and holds clinical appointments at other leading universities. Outside of pharmacy, he served as a National Quality Forum Advisory Panel Member, Chamberlain College of Nursing Advisory Committee member, and is an Adjunct Professor of Nutrition Health and Wellness, Integrated Science, Business Management and Nursing Pharmacology at DeVry University. His interests are Medication Therapy Management, Entrepreneurship, Ambulatory Care, Pharmacy Administration and Management, Pharmacy Business Models and Structure, Pharmacoeconomics, Pharmacy/Business Interfacing, and participating in local, state and national pharmacy organizations.

Jennifer J. Wellborn-Kim, PharmD, BCPS, BCACP, CPP jenniferkim06@gmail.com

Dr. Wellborn-Kim is currently Assistant Director of Pharmacy Education for AHEC/UNC and Cone Health Internal Medicine in Greensboro, North Carolina. She obtained her pharmacy doctorate from the University of Florida College of Pharmacy, and thereafter completed a PGY-1 pharmacy residency at Indian River Medical Center. Her professional experience consists of working as Residency Director and Clinical Pharmacy Specialist at Novant Health, Clinical Pharmacy Specialist at Boca Raton Regional Hospital, Clinical Pharmacy Coordinator at Broward Health, and Assistant Professor of Pharmacy Practice at Nova Southeastern University.

Karen Whalen, Pharm.D., BCPS, CDE - whalen@cop.ufl.edu

Dr. Whalen is Assistant Dean for Clinical Education and a Clinical Professor in the Department of Pharmacotherapy and Translational Research at the University of Florida College of Pharmacy. She received her Doctor of Pharmacy degree with highest honors from the University of Florida. She completed a Pharmacy Practice Residency at the Moses Cone Health System followed by a Primary Care Residency at the James A. Haley Veterans' Hospital. Following residency training, Dr. Whalen was a faculty member in the Department of Pharmacy Practice at Nova Southeastern University (NSU) for 12 years. While at NSU College of Pharmacy, she was an eight-time recipient of the Golden Apple Award for Teaching Excellence. In 2008, Dr. Whalen joined the faculty of the University of Florida College of Pharmacy as assistant director of the St. Petersburg Campus. In 2010, she transitioned to the main campus in Gainesville. She now serves as Director of the Master of Science in Pharmacy with concentration in Medication Therapy Management degree program. Her excellence in teaching was

recognized with the Faculty Recognition Award in 2011 and 2012, and the Teacher of the Year Award in 2013.

Dr. Whalen is a Board Certified Pharmacotherapy Specialist and a Certified Diabetes Educator. She has practiced ambulatory care pharmacy in a variety of settings including an academic family medicine center, community pharmacy practice, and a Veterans' Affairs Healthcare System. Dr. Whalen is active in local, state and national pharmacy organizations, and is a past president of the Florida Pharmacy Association. She is a past recipient of the National Community Pharmacists Association Pharmacy Leadership Award, and the Florida Pharmacy Association Jean Lamberti Mentorship Award.

Appendix B. Schedule of Course Activities/Topics

Week	Module	Lecture Topic	Lecturer
1 5/3-5/9	Introduction to respiratory	1.1 Course Intro/Expectations 1.2 Meet the Experts 1.3 Practice Perspectives	Riley Whalen/Clark Maniscalco
2 5/10-5/16	Drug Literature Evaluation Review	2.1 Expanding on Methods & Results 2.2 Data, Design & Biostatistics 2.3 Applied Evaluation 2.4 Clinical Interpretation	Garcia
3 5/17-5/23	Respiratory Disorders 1	3.1 Assessment of Lung Function 3.2 Asthma Part 1 3.3 Asthma Part 2 3.4 COPD	McLaughlin- Middlekauff Garcia Maniscalco
4 5/24-5/30	Respiratory Disorders 2	4.1 Allergic Rhinitis 4.2 Smoking Cessation 4.3 Pulmonary Hypertension 4.4 Respiratory Cases 4.5 Quality assurance	Wellborn-Kim Sando Louzon Garcia Schuh
5 5/31-6/6	Respiratory Illness in Practice and Introduction to Respiratory Infectious Disease	5.1 Anaphylaxis 5.2 Respiratory Delivery Devices 5.3 Influenza 5.4 Immunization 1 5.5 Immunization 2	Braden Clark Clayville
6 6/7-6/13	Respiratory Infectious Disease	6.1 Sinusitis/URI 6.2 CAP 6.3 TB part 1 6.4 TB part 2	Wellborn-Kim Wellborn-Kim Peloquin Peloquin

Appendix C: Assignments and Learning Responsibilities:

Week	Reading Assignment	Learning Responsibility
1 5/3-5/9 (5 hours)*	<ul style="list-style-type: none"> ▪ Review course syllabus ▪ MTM core elements 	View all lectures for week 1 Complete assigned readings DISCUSSION BOARD POST 1
2 5/10-5/16 (7 hrs)	<ul style="list-style-type: none"> ▪ Articles in Resource Folder 	View all lectures for week 2 Complete assigned readings BigBlueButton session 1.5 hours Complete assignments - Journal club QUIZ 1
3 5/17-5/23 (7 hours)*	<ul style="list-style-type: none"> ▪ Dipiro Ch Pulmonary Function testing ▪ Dipiro Ch - Asthma & COPD ▪ EPR-3 guidelines & Gold guidelines ▪ MTM Ch Asthma & COPD 	View all lectures for week 3 Complete assigned readings BigBlueButton session 1.5 hours DISCUSSION BOARD POST 2 MIDTERM
4 5/24-5/30 (8 hours)*	<ul style="list-style-type: none"> ▪ Dipiro Ch -Allergic Rhinitis ▪ Treating tobacco Use and Dependence US Dept of Health Clinical Practice Guideline ▪ Dipiro Ch - PAH ▪ WarholakTL. Quality & Safety in Pharmacy ISBN 987-0-07-160385-0 	View all lectures for week 4 Complete assigned readings BigBlueButton session 1.5 hours DISCUSSION BOARD POST 3 Complete assignment - CMR
5 5/31-6/6 (8 hours)*	<ul style="list-style-type: none"> ▪ Dipiro Ch-anaphylaxis ▪ Dipiro Ch- influenza ▪ www.cdc.gov/vaccines 	View all lectures for week 5 Complete assigned readings BigBlueButton sessions 1.5 hours Complete assignments - Quality Assurance Quiz
6 6/7-6/13 (8 hours)*	<ul style="list-style-type: none"> ▪ Dipiro Ch- Upper Respiratory infections ▪ Dipiro Ch - Lower Respiratory Infections ▪ CAP guidelines ▪ Dipiro Ch - TB 	View all lectures for week 6 Complete assigned readings Adobe session 1.5 hours FINAL

All assignments will be released on Sakai at least two weeks prior to due date. Reading assignments not contained in the required text will be posted in the Resource folder designated for that week of class. **All assignments should be completed on an individual basis unless otherwise specified.**