
PHA 6635 - Medication Therapy Management: A Renal Focus Spring 2016 - 3 Semester Credit Hours

Course Purpose:

The course is intended to familiarize students with the provision of MTM in patients with **renal** disorders that range from common to complex. The student will gain hands-on practice in the core elements of MTM for patients with **renal** 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
Clinical Assistant Professor
Department of Pharmacotherapy & Translational Research
University of Florida, College of Pharmacy
Phone: (519) 339-0614
Email: kdriley@ufl.edu

Office Hours

By appointment
Preferred contact method: email

Course Facilitators:

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

Karen Riley, 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 Canvas 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 Big Blue Button 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 cardiovascular 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 for an outline of course activities.

Textbooks

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)
- Weekly live online learning sessions (6)
- Marketing Infographic/advertisement (1)
- Patient Education handout on dietary modifications in CKD (1)
- Case studies -Comprehensive medication review (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%

- Patient education handout- 7.5%
- Comprehensive Medication Review - 10%
- Marketing infographic/advertisement 7.5%

Quizzes 10%

- Week 3 - 5%
- Week 6 - 5%

Class participation 15%

- Discussion board - 3%*
- Big Blue Button sessions - 12%

Exams 50%

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

***Please note: All discussion board postings need to be done before 6pm Sunday evening prior to the Big Blue Button session. 50 points will be deducted for late submissions.**

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 Big Blue Button sessions is mandatory and participation in the group discussion is required.

Because there are 3 opportunities to attend the Big Blue Button sessions, students who know that they will miss a session should contact the facilitator as soon as possible and arrange to attend another 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 Big Blue Button session. Written documentation of the session content must be submitted to the facilitator no later than 1 week after the missed session. Written submissions after 1 week will result in a mark of zero.

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.

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, 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:

1. University Grading Policies
2. Concerns, Appeals, and Complaints
3. Academic Integrity Policy
4. Psychomotor and Learning Expectations
5. How to request learning accommodations
6. Faculty and course evaluations
7. Computer and other technology requirements
8. Student expectations in class
9. Communications
10. Religious holidays
11. Counseling and Wellness Center
12. 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>

Other Course Information

Appendix A: Directions for Contacting Faculty & Course Faculty List

Appendix B. Lecture 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 Clinical Assistant Professor since 2004 in various roles as a facilitator and expert presenter. She has been a course coordinator for the Masters of Medication Therapy Management for various courses 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 Ontario College of Pharmacists Council 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

Shawn Anderson Pharm D - shawnanderson@gmail.com

Shawn D. Anderson is a Cardiology Clinical Pharmacy Specialist at the Malcom Randall Veterans Affairs Medical Center in Gainesville, Florida. He is also an Adjunct Clinical Professor in the Department of Pharmacotherapy and Translational Research at the University of Florida College of Pharmacy. Dr. Anderson received a Pharm.D. from the University of Florida College of Pharmacy in 2006. After graduation, he completed a Postdoctoral Fellowship in Family Medicine in the Departments of Community Health and Family Medicine and Pharmacy Practice in the Colleges of Medicine and Pharmacy at the University of Florida. Dr. Anderson has conducted research involving antimicrobial surveillance and metabolic response of thiazide diuretics. Current research interests include clinical and medication-related outcomes in heart failure. Dr. Anderson serves as a clinical instructor for the University of Florida College of Pharmacy and the Working Professional Doctor of Pharmacy Program and a mentor for pharmacy practice residents at the Malcom Randall Veterans Affairs Medical Center. He is a member of the American Heart Association, American College of Clinical Pharmacy, American Society of Health-System Pharmacists, Florida Society of Health-System Pharmacists, and the Heart

Failure Society of America. Dr. Anderson has published peer-reviewed articles in topics related to antibiotics, hypertension, anti-platelets and contributed to book chapters in endocrine-related disorders. He also serves as a scientific reviewer for the Annals of Pharmacotherapy.

Stacy Baggett, Pharm D, BCPS - sbaggett@cop.ufl.edu

Stacey Baggett received her Doctor of Pharmacy degree in 2007 from Midwestern University – College of Pharmacy in Glendale, Arizona, as well as a Bachelor of Science degree in Biochemistry from Purdue University in 2004. Dr. Baggett is currently a Regional Coordinator for Experiential Programs for the University of Florida College of Pharmacy and Clinical Assistant Professor at the College's Orlando campus. Her practice experience has primarily been in acute care/inpatient pharmacy, with a focus on Infectious Diseases and Anticoagulation. She is currently a Clinical Pharmacist at Palm Bay Hospital. She has precepted students in Adult Medicine and Ambulatory Care, as well as PGY-1 residents in Internal Medicine and Infectious Diseases, and has lectured for the MTM and WPPD programs. Dr. Baggett is a Board Certified Pharmacotherapy Specialist and her interests include student and preceptor development, infectious diseases, and internal medicine.

Julie Cash Pharm D - cashj@shands.ufl.edu

Dr. Cash Pharm D earned her Doctor of Pharmacy degree at the South Carolina College of Pharmacy, USC campus in 2010. She completed an ASHP-accredited Pharmacy Practice Residency at Palmetto Health Richland in Columbia, SC from 2010-2011 and an ASHP-accredited specialty residency in Critical Care at Shands Hospital at the University of Florida, Gainesville, FL from 2011-2012. She currently works as a Clinical Staff Pharmacist in Critical Care at Shands Hospital at UF. She is a member of the Society of Critical Care Medicine and Florida Society of Health System Pharmacists. She currently serves as the treasurer of the North Central Florida Society of Health-System Pharmacists.

Eric Dietrich Pharm D - ead1129@ufl.edu

Dr. Dietrich is a Clinical Assistant Professor within the Department of Pharmacotherapy and Translational Research. his work involves providing aid in discharge planning and transitional care management, including making post-discharge follow-up home calls. He also established the High Risk Clinic at Family Medicine at Main Street for patients with uncontrolled high-risk diabetes. Dr. Dietrich's research interested include interventions aimed at reducing hospital readmission rates as well as outcomes-based research for chronic diseases such as diabetes and hypertension. Dr. Dietrich's wife Nicole is a Critical Care Pharmacist at the VA.

Paul Doering M.S

Professor Doering is a Distinguished Service Professor, Emeritus in the Department of Pharmacotherapy and Translational Research at the University of Florida's College of Pharmacy. For 28 years he was the Director or Co-Director of the statewide Drug Information and Pharmacy Resource Center at the Health Sciences Center, University of Florida. Over the years, Professor Doering has received numerous honors and awards. He was awarded Teacher of the Year five separate times and in 2007 he was named a member of the University of Florida's Academy of Distinguished Teaching Scholars. Paul is now enjoying his "retirement" years and is continuing his work with students and pharmacists through lectures, seminars, and other such things.

Lori Dupree Pharm D, BCPS - ldupree@cop.ufl.edu

Dr. Dupree received her Pharm.D. from the McWhorter School of Pharmacy at Samford University. Her postdoctoral training includes Pharmacy Practice and Internal Medicine residencies. Since completing

her training, Dr. Dupree has worked as a Clinical Inpatient Practitioner of Family Medicine and Internal Medicine. She has served as Assistant Clinical Professor at Auburn University, the University of Georgia and Mercer University. Dr. Dupree began her affiliation with the University of Florida in 2004 as a Courtesy Clinical Assistant Professor and rotation preceptor. She accepted a full time faculty appointment in July 2013.

Michael Schuh BS, Pharm D, MBA - mschuhrx1@gmail.com

Dr. 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, Duval County Pharmacy Association, 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 and an APhA Congressional Key Contact. He has served as an active member of APhA's MTM Task Force, APhA Executive Committee 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.

Lisa Vandervoort Pharm D- lvandervoort@cop.ufl.edu

Dr. Vandervoort, Pharm.D received her Doctor of Pharmacy degree from the University of Florida College of Pharmacy in 1995 and completed a Pharmacy Practice Residency at Shands Hospital at the University of Florida in 1996. She spent 10 years as the Clinical Specialist in Infectious Disease/Internal Medicine at Orlando Regional Medical Center. For the past 7 years Dr Vandervoort has been a Clinical Assistant Professor at the University of Florida both at the Orlando Campus and with the WPPD program. Her primary interests include pharmacokinetics, infectious disease and internal medicine.

Katherine Vogel Anderson Pharm D, BCACP - kvanderson@cop.ufl.edu

Dr. Vogel Anderson, Pharm.D. earned her Bachelor of Science degree in biochemistry, with a minor in math, from the Florida State University in 1999. In 2003, Dr. Vogel Anderson graduated with her doctorate of pharmacy degree from the University Of Florida College Of Pharmacy. Following this, Dr. Vogel Anderson completed a primary care pharmacy residency at the Malcom Randall Veterans Affairs Medical Center in Gainesville. After her residency, Dr. Vogel Anderson accepted a clinical pharmacy

specialist position at the same VA, in the pharmacotherapy clinic, where she specialized in anticoagulation management. She held this position for five years, before transferring to the VA geriatric primary care clinic, where she managed anticoagulation, hypertension, and diabetes, among other disease states, as part of a multi-disciplinary health care team. Dr. Vogel Anderson joined the Gainesville UF faculty in April, 2010. In addition to her teaching responsibilities, Dr. Vogel Anderson practices at the UF Health Internal Medicine Outpatient Clinic, where she manages an anticoagulation/pharmacotherapy service. Dr. Vogel Anderson received the College of Pharmacy Faculty Recognition Award for 2013.

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.

Debbie Wilson, Ph.D

Dr. Wilson has educational backgrounds in Linguistics (MA 1999) and Pharmacy Health Care Administration (PhD 2004). Dr. Wilson's Veterans Administration (VA) Health Services Research and Development (HSR&D) Post-Doctoral Fellowship (2005-2008) training program at the VA Rehabilitation Outcomes Research Center of Excellence was focused on developing knowledge in shared decision-making among providers and patients. She is an Affiliate Clinical Assistant Professor in the University of Florida (UF) Department of Pharmaceutical Outcomes and Policy and Coordinator of the UF College of Pharmacy course Professional Communications in Pharmacy. Dr. Wilson has worked in community and nuclear pharmacy settings as a Pharmacy Technician. Dr. Wilson's research interests have focused on pharmacy professional roles (skills mix), professional expertise, shared decision-making and patient empowerment. She is well versed in qualitative and quantitative research methodology in pharmacy health care administration, with emphasis on instrument development and validation. She has participated in eight funded studies (1 PI & 2 co-PI) based on their semester.

Appendix B: MTM: A Renal Focus (PHA 6635) - Schedule of Course Activities/Topics

Week	Module	Lecture Topic	Lecturer
1 01/11- 01/17	Introduction to Renal	1.1 Course Intro/Expectations 1.2 Meet the Experts 1.3 Practice Perspectives 1.4 Interpretation of Clinical Laboratory Data	Riley Whalen/Arthur Schuh Baggett
2 01/18 - 01/24	Chronic Kidney Disease	2.1 CKD 1 2.2 CKD 2 2.3 CKD Managing Complications 2.4 CKD MTM cases	Dupree Dupree Anderson Anderson
3 01/25 - 01/31	Electrolyte Disorders	3.1 Electrolyte Disorders I 3.2 Electrolyte Disorders II 3.3 DI/Literature Thread	Dietrich Dietrich Doering
4 02/1 – 02/7	Dosage Individualization in Renal Disease	4.1 Drug Dosing in CKD I 4.2 Drug Dosing in CKD II 4.3 Drug Dosing Cases	Dupree Dupree Cash
5 02/08 – 02/14	Renal Failure	5.1 Acute Renal Failure 1 5.2 Acute Renal Failure 2 5.3 Drug-induced Renal Failure	Dupree Dupree Riley
6 02/15 - 02/21	Renal Transplant	6.1 Renal Transplant I 6.2 Renal Transplant II 6.3 Communication Thread – Health Literacy	Schuh Schuh Wilson
7 02/22 – 02/28	Urologic Disorders	7.1 UTIs/Prostatitis 7.2 BPH 7.3 Erectile Dysfunction 7.4 Overactive Bladder 7.5 Urologic MTM Cases	Vandervoort Vogel Anderson Vogel Anderson Vogel Anderson Vogel Anderson

Exam Schedule

Midterm Exam: Feb 7, 2016

Final Exam: Feb 27, 2016

Appendix C: Assignments and Learning Responsibilities:

Week	Reading Assignment	Learning Responsibility
1 01/11 – 01/17 (6 hours)*	Review course syllabus Basic Skills in Interpreting Laboratory Data 5th Ed as a reference	View all lectures for week 1 Complete assigned readings BigBlueButton session 1.5 hours Discussion board posting 1
2 01/18 - 01/24 (7 hours)*	DiPiro Chapter Chronic Kidney Disease K/DOQI CKD Guidelines: -Estimation of GFR -DM and CKD (Exec Summary) -HTN Treatment in CKD -Dyslipidemia Treatment and CKD -ESA article	View all lectures for week 2 Complete assigned readings BigBlueButton session 1.5 hours Discussion board posting 2 Patient handout
3 01/25 - 01/31 (6 hours)*	DiPiro Chapter Sodium and Water DiPiro Chapter Calcium and Phosphorus DiPiro Chapter Potassium and Magnesium DiPiro Chapter Acid-Base Disorders Renal DI Comparison article	View all lectures for week 3 Complete assigned readings BigBlueButton session 1.5 hours Quiz 1
4 02/1– 02/7 (8 hours)*	DiPiro Chapter- Drug Therapy Individualization in CKD Estimating CrCL - A meta-analysis Drug Renal Alert Program	View all lectures for week 4 Complete assigned readings BigBlueButton session 1.5 hours Midterm
5 02/8 – 02/14 (7 hours)*	DiPiro Chapter– Acute Kidney Injury KDingo AKI guidelines DiPiro Chapter- Drug-Induced Kidney Disease	View all lectures for week 5 Complete assigned reading BigBlueButton session 1.5 hours Marketing services CMR
6 02/15 - 2/21 (6 hours)*	DiPiro Chapter Hemodialysis and Peritoneal Dialysis Immunosuppression Review Article Infection in Transplant Article Health Literacy Article	View all lectures for week 6 Complete assigned readings BigBlueButton session 1.5 hours Discussion board posting 3 Quiz 2
7 2/22 – 2/28 (8 hours)*	IDSA Guidelines: Asymptomatic Bacteruria, Uncomplicated UTI and Catheter-Associated UTI BPH Guidelines EAU Urinary Incontinence Guidelines Anticholinergic Risk Scale	View all lectures for week 7 Complete assigned readings FINAL EXAM

*Contribution to course credit assignment

All assignments will be released on Canvas 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.**