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
Adjunct Clinical Assistant Professor University of Florida
Department of Pharmacotherapy and Translational Research
Email: kdriley@ufl.edu
Phone: 519-339-0614

Office Hours
Preferred contact method: email

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 Adobe Connect 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 renal 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

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 (5)
- Case studies - comprehensive medication review (1)
- Patient handout on dietary modifications in CKD
- Marketing MTM services advertisement

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 handout - 5%
- Comprehensive Medication Review - 10%
- Marketing advertisement - 10%

Quizzes 10%
- Week 2 - 5%
- Week 5 - 5%

Class participation 15%
- Discussion board - 3%
- Adobe Connect sessions - 12%

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.

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<th>Grade</th>
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</table>

Class Attendance Policy

Attendance at the weekly Adobe Connect sessions is mandatory. Students who miss an Adobe Connect session should contact the facilitator as soon as possible. Upon approval of the facilitator, students may make up a missed session by completing a brief written assignment. Failure to get approval for the missed session prior to the session will result in a mark of zero for the adobe 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, 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 point deduction 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. Academic Integrity Policy
3. How to request learning accommodations
4. Faculty and course evaluations
5. Student expectations in class
6. Discussion board policy
7. Email communications
8. Religious holidays
9. Counseling & student health
10. How to access services for student success

Please see the following URL for this information:

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 completed her BScPhm from the University of Toronto and Pharm D from the University of Florida. She is currently the program developer and Medication Therapy Management Pharmacist for an independent group of pharmacies in Sarnia, Ontario, Canada. Karen has been involved in the Working Professional Pharm D Program as an Adjunct Clinical Assistance Professor since 2004 in various roles as a facilitator in Detroit and Tampa, Foundations Facilitator and expert presenter in the Renal and Psychiatric courses. Dr. Riley became a Board Certified Pharmacotherapy Specialist in 2006, a Certified Geriatric Pharmacist in 2011 and a Board Certified Ambulatory Care Pharmacist in 2012. She is a member of the Ontario Pharmacist Association Professional Practice Committee and the Continuing Education coordinator for the Ontario College of Pharmacists. She has published in the areas of nephrology, osteoporosis, Medication Therapy Management and has done many presentations for pharmacists, nurses, physicians and the public during her career.

Instructors

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.

**Abigail Dee Antigua, Pharm.D.** is a clinical specialist in surgical intensive care at Shands at the University of Florida and a clinical assistant professor of the University of Florida College of Pharmacy. Dr. Antigua received her Pharm.D. from the University of Florida College of Pharmacy. She completed her Pharmacy Practice residency at Shands at UF and specialty residency in Critical Care at the University of Washington Medical Center/ Harborview Medical Center, and served as clinical instructor at the University of Washington School of Pharmacy. She is active in both the Society of Critical Care Medicine Clinical Pharmacy as a journal club moderator as well as the North Central Florida Health-System Pharmacists. Her areas of interest are quality improvement projects in the ICU, solid organ transplant and prevention of thromboembolic events in surgical patients.

**Edith Arthur, Pharm.D.** After completing pre-pharmacy coursework at the University of Georgia, Dr. Edith Kavanaugh Arthur went on to graduate in 2006 with honors from Mercer University's Southern School of Pharmacy in Atlanta, Georgia. Following graduation, Arthur moved to Birmingham, Alabama to pursue a post-graduate year one pharmacy practice residency at the University of Alabama Birmingham Hospital. After completion of her residency, Arthur accepted a position at Shands Jacksonville Medical Center as an inpatient practitioner, specializing in internal medicine and nephrology. Over the last five years at Shands, Dr. Arthur has continued to develop her practice and further her education. In June of 2011 Arthur was awarded the preceptor of the year by the pharmacy residency class.

**Stacey Baggett, Pharm.D., BCPS** 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 Clinical Assistant Professor and Regional Coordinator of Experiential Programs for the University of Florida College of Pharmacy. She practices as a Clinical Pharmacy Specialist at Holmes Regional Medical Center in Melbourne, Florida in both the acute care and ambulatory care settings. Her clinical teaching experience includes precepting students in Adult Medicine and Ambulatory Care, as well as PGY-1 residents in Internal Medicine and Infectious Disease. Dr. Baggett is a Board Certified Pharmacotherapy Specialist and her interests include student and preceptor development and infectious diseases.

**Jennifer Bushwitz, Pharm.D.,** is a clinical specialist in the Neuro Intensive Care Unit at Shands at the University of Florida and a clinical assistant professor of the University of Florida College of Pharmacy. Dr. Bushwitz received her Pharm.D. from the University of Florida College of Pharmacy in 2008 and completed her PGY-1 Pharmacy Practice Residency at Shands at the University of Florida. She then went on to complete her PGY-2 Critical Care Pharmacy Residency at Barnes-Jewish Hospital in St. Louis, Missouri.
Julie H. 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 is a Post-doctoral Fellow in the Departments of Pharmacotherapy and Translational Research and Community Health and Family Medicine, Colleges of Pharmacy and Medicine. Eric has lectured for the University of Florida College of Pharmacy for Pharmacotherapy II and III and is currently involved with research projects in anticoagulation and the treatment of high blood pressure. Eric is a member of the American College of Clinical Pharmacy (ACCP), APhA, FSHP, and is a reviewer for the Annals of Pharmacotherapy. Eric also precepts third and fourth year University of Florida College of Pharmacy students for their Ambulatory Care rotation at the Fourth Avenue Family Medicine Clinic located in Gainesville, FL.

Paul 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.

Reginald F. Frye, Pharm.D., Ph.D is an associate professor in the Department of Pharmacotherapy and Translational Research at the University of Florida College of Pharmacy. Before holding his current position, he was on the faculty at the University of Pittsburgh School of Pharmacy. The focus of his clinical research program is on evaluating factors that contribute to variability in drug response through modulation of drug metabolizing enzymes and transporters. Such factors may influence response by affecting the ability of an individual to eliminate or metabolize drugs and include genetics(pharmacogenetics), age, and disease states (e.g., liver disease, heart failure, and renal disease). He has published more than 100 peer-reviewed research publications and several book chapters. Dr. Frye is an editorial board member of journals including Pharmacotherapy and has been a reviewer on NIH study sections. The pharmaceutical industry, private foundations, and the NIH have funded his research.

Michael Gillette, Pharm.D., BCPS, BCACP is a post-doctoral fellow specializing in cardiovascular pharmacotherapy at the Malcom Randall VA Medical Center in Gainesville, FL. He previously received his Pharm.D. from Nova Southeastern University before going on to complete a pharmacy practice residency with an emphasis in acute care at the Malcom Randall VA Medical Center. He is board certified in both pharmacotherapy and ambulatory care and has served as the guest lecturer for the renal failure case at the University of Florida.
Michael J. Schuh, Pharm.D., MBA has more than 25 years experience managing pharmacies and small businesses. Dr. Schuh received a Bachelor of Science in pharmacy from the University of Florida in 1982. He obtained a Masters of Business Administration from the University of Phoenix in 2001 and Doctor of Pharmacy from Nova Southeastern University in 2006. Dr. Schuh has a Florida Pharmacist Consultant License and a Florida Pharmacist license and has authored or co-authored many publications. 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. Currently Dr. Schuh is an ambulatory/outpatient pharmacist at the Mayo Clinic and former Vice President of Operations and Finance for Advanced Audio-Medical, Inc. He is an active member of the Northeast Florida Society of Health System Pharmacists, Florida Society of Health System Pharmacists, Duval County Pharmacists Association, and Florida Pharmacy Association. On a national level he is current 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 and is cofounder and co-coordinator of the new APHA Medication Therapy Special Interest Group. For 2011 he was appointed to the National Quality Forum’s Evaluation Advisory Panel. Dr. Schuh has received academic appointments of Assistant Professor of Family and Palliative Medicine and Assistant Professor of Pharmacy at the Mayo College of Medicine, Clinical Assistant Professor of Pharmacy Practice at the University of Florida and also serves as an Adjunct Professor and Coordinator of the new University of Florida Master of Science in Pharmacy Medication Therapy Management program. He is a Clinical Associate Professor at Wingate University, Clinical Assistant Professor at Palm Beach Atlantic University, Sullivan University and Clinical Assistant Professor at Virginia Commonwealth University. Outside of pharmacy, he is an Adjunct Professor of Nutrition Health and Wellness, 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 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 5 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. 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 Shands Internal Medicine Outpatient Clinic, where she manages an anticoagulation/pharmacotherapy service. Dr. Vogel Anderson also received the College of Pharmacy Faculty Recognition Award for 2013.

Karen Whalen, Pharm.D., BCPS, CDE received her Doctor of Pharmacy degree from the University of Florida. She then completed a Pharmacy Practice Residency at the Moses Cone Health System in Greensboro, North Carolina. Subsequently, she completed a Primary Care Residency at the James A. Haley Veterans’ Hospital in Tampa, Florida. Dr. Whalen joined the faculty of the University of Florida College of Pharmacy in 2008 as Assistant Director of the St. Petersburg Campus. Currently, she is a Clinical Associate Professor in the Department of Pharmacotherapy and Translational Research and Director of the MS-MTM Program. Prior to joining the faculty at University of Florida, Dr. Whalen was an Associate Professor of Pharmacy Practice at Nova Southeastern University for twelve years. Dr. Whalen is a Board Certified Pharmacotherapy Specialist and a Certified Diabetes Educator. She is an active in local, state, and national pharmacy associations, and is a past president of the Florida Pharmacy Association.

Debbie Wilson, Ph.D. 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).
### Appendix B. Schedule of Course Activities/Topics

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<th>Week</th>
<th>Module</th>
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<tr>
<td>1</td>
<td>5/6-5/12</td>
<td>1.1 Course Intro/Expectations, 1.2 Meet the Experts, 1.3 Practice Perspectives, 1.4 Interpretation of Clinical Laboratory Data</td>
<td>Riley Whalen/Arthur Schuh Baggett</td>
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<td>2</td>
<td>5/13-5/19</td>
<td>2.1 Assessing Renal Function, 2.2 CKD Intro and strategies to slow progression, 2.3 CKD Managing Complications, 2.4 CKD MTM cases</td>
<td>Gillette Gillette Anderson Anderson</td>
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<td>3</td>
<td>5/19-5/26</td>
<td>3.1 Electrolyte Disorders 1, 3.2 Electrolyte Disorders 2, 3.3 DI/Literature Thread, 3.4 Communications - Health Literacy</td>
<td>Dietrich Bushwitz Doering Wilson</td>
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<tr>
<td>4</td>
<td>5/27-6/2</td>
<td>4.1 Drug Dosing in CKD 1, 4.2 Drug Dosing in CKD 11, 4.3 Drug Dosing Cases</td>
<td>Frye Frye Cash</td>
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<tr>
<td>5</td>
<td>6/3-6/9 Renal Failure &amp; Transplantation</td>
<td>5.1 Acute Renal Failure, 5.2 Drug-induced Renal Failure, 5.3 Considerations in Dialysis Patients, 5.4 Renal Transplant 1, 5.5 Renal Transplant 2</td>
<td>Antigua Riley Arthur Schuh Schuh</td>
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<td>6</td>
<td>6/10-6/15 Urological Disorders</td>
<td>6.1 UTIs/Prostatitis, 6.2 BPH, 6.3 Erectile Dysfunction, 6.4 Urinary Incontinence, 6.5 Urologic MTM cases</td>
<td>Vandervoort Vogel Anderson Vogel Anderson Vogel Anderson</td>
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**Exam Schedule**

*Midterm Exam: May 25, 2013*  
*Final Exam: June 15, 2013*
# Appendix C. Assignments and Learning Responsibilities

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<th>Week</th>
<th>Reading Assignment</th>
<th>Learning Responsibility</th>
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<tbody>
<tr>
<td>1</td>
<td>5/6-5/12&lt;br&gt;(6 hours)*&lt;br&gt;Review course syllabus&lt;br&gt;Review Pocket Guide to Diagnostic Tests&lt;br&gt;Basic Skills in Interpreting Laboratory Data 4th Ed. 2009 as a reference</td>
<td>View all lectures for week 1&lt;br&gt;Complete assigned readings&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;Discussion board posting 1</td>
</tr>
<tr>
<td>2</td>
<td>5/13-5/19&lt;br&gt;(8 hours)*&lt;br&gt;K/DOQI CKD guidelines:&lt;br&gt;Estimation of GFR&lt;br&gt;DM and CKD (Exec Summary)&lt;br&gt;HTN treatment in CKD&lt;br&gt;Dyslipidemia Treatment and CKD&lt;br&gt;ESA article&lt;br&gt;ESA Drug Drug Safety Communication</td>
<td>View all lectures for week 2&lt;br&gt;Complete assigned readings&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;Complete assignments - Patient handout-dietary modifications in CKD&lt;br&gt;QUIZ 1</td>
</tr>
<tr>
<td>3</td>
<td>5/20-5/26&lt;br&gt;(9 hours)*&lt;br&gt;Potassium Replacement Guidelines&lt;br&gt;Hyponatremia Treatment Guidelines&lt;br&gt;Dipiro Chapter Chronic Kidney Disease: Management of Complications (treatment only)&lt;br&gt;Health Literacy Article</td>
<td>View all lectures for week 3&lt;br&gt;Complete assigned readings&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;Discussion board posting 1&lt;br&gt;MIDTERM EXAM</td>
</tr>
<tr>
<td>4</td>
<td>5/27-6/2&lt;br&gt;(8 hours)*&lt;br&gt;Dipiro Chapter - Drug Therapy&lt;br&gt;Individualization in CKD&lt;br&gt;Renal DI comparison article</td>
<td>View all lectures for week 4&lt;br&gt;Complete assigned readings&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;Complete assignments - Marketing MTM Services Advertisement</td>
</tr>
<tr>
<td>5</td>
<td>6/3-6/9&lt;br&gt;(9 hours)*&lt;br&gt;Dipiro Chapter - Acute Kidney Injury&lt;br&gt;Dipiro Chapter - Drug Induced Kidney Disease&lt;br&gt;Dipiro Chapter - Hemodialysis and Peritoneal Dialysis&lt;br&gt;Immunosuppression Review Article&lt;br&gt;Infection in Transplant Article</td>
<td>View all lectures for week 5&lt;br&gt;Complete assigned readings&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;Discussion board posting 1&lt;br&gt;QUIZ 2</td>
</tr>
<tr>
<td>6</td>
<td>6/10-6/15&lt;br&gt;(8 hours)*&lt;br&gt;IDSA Guidelines: Asymptomatic Bacteruria, Uncomplicated UTI and Catheter-Associated UTI&lt;br&gt;AUA BPH Guidelines&lt;br&gt;EAU Urinary Incontinence Guidelines</td>
<td>View all lectures for week 6&lt;br&gt;Complete assigned readings&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;FINAL EXAM&lt;br&gt;CMR assignment - comprehensive med review due June 17</td>
</tr>
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*Contribution to course credit assignment

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.
Additional Suggested Readings:

**Electrolyte Disorders**


