Course Purpose:
The course is intended to familiarize students with the provision of MTM in patients with cardiovascular disorders that range from common to complex. The student will gain hands-on practice in the core elements of MTM for patients with cardiovascular 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 R. Sando, PharmD, BCACP, CDE
Clinical Assistant Professor
Dept. of Pharmacotherapy and Translational Research
Email: ksando@cop.ufl.edu     Office: HPNP Bldg, Office 3306
Phone: 352-273-6224

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 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 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. 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) All postings need to be done before 6 pm Sunday evening prior to the Adobe Connect Session. 50 points will be deducted for late submissions.
- Weekly live online learning sessions (5)
- Interview guide (1)
- Case studies - comprehensive medication review (1)
- SOAP Notes (2)

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%
- Hypertension Interview Guide - 5%
- Lipid and Hypertension SOAP Notes - 10%
- Comprehensive Medication Review - 10%

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

Class participation 15%
- Discussion board - 5%
- Adobe Connect sessions - 10%

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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<tr>
<td>A-</td>
<td>90.0-92.9</td>
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<tr>
<td>B+</td>
<td>86.6-89.9</td>
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<tr>
<td>B</td>
<td>83.3-86.5</td>
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<tr>
<td>B-</td>
<td>80.0-83.2</td>
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<td>C+</td>
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<tr>
<td>C</td>
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<td>D+</td>
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<td>63.3-66.5</td>
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<tr>
<td>D-</td>
<td>60.0-63.2</td>
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<tr>
<td>E</td>
<td>&lt;60</td>
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</tbody>
</table>

Class Attendance Policy

Attendance at the weekly Adobe Connect sessions is mandatory and participation in the group discussion is required. Because there are 3 opportunities to attend the Adobe Connect sessions, students who know they will miss an Adobe Connect session should contact the facilitator as soon as possible and arrange to attend another Adobe Connect 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 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.

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 R. Sando, Pharm.D., BCACP, CDE
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 UF Health Family Medicine at Old Town. Dr. Sando also serves as a preceptor for 4th year pharmacy students on ambulatory care rotation. She also directs a PGY-2 Pharmacy Residency Program in ambulatory care.

Course Facilitator(s)

Karen Riley BScPhm, Pharm D, BCPS, CGP, BCACP, CDE
Dr. Riley 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 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 is a Board Certified Pharmacotherapy Specialist, a Certified Geriatric Pharmacist, a Board Certified Ambulatory Care Pharmacist and a Certified Diabetes Educator. She is 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 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.

Pamela Roehrl, B.S., M.S., Pharm.D.
Instructors

Shawn Anderson, Pharm.D., BCACP
Shawn D. Anderson is a Cardiology Clinical Pharmacy Specialist at the Malcom Randall Veterans Affairs Medical Center in Gainesville, Florida. He is also a Clinical Assistant 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. His current research interests include clinical and medication-related outcomes in heart failure. 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.

Rhonda Cooper-DeHoff, Pharm D, MS, FAHA, FACC
Dr. Cooper-DeHoff is Associate Professor in the Department of Pharmacotherapy and Translational Research, College of Pharmacy and Division of Cardiovascular Medicine, College of Medicine at the University of Florida in Gainesville, Florida. She earned her Pharm D degree from the University of California at San Francisco, School of Pharmacy in 1986 and completed a clinical residency there in 1987. Subsequently, in 2007, she graduated from the University of Florida with a master’s degree in medical sciences, with an emphasis in clinical investigation. Dr. Cooper-DeHoff’s research interests include hypertension, metabolic syndrome and diabetes and coronary artery disease. She is a member of the American Heart Association, American Society of Hypertension, American College of Cardiology and Florida Society of Hospital Pharmacists. In 2007, Dr. Cooper-DeHoff was named Fellow of the American Heart Association, in 2008 she received the Clinical Science Award from the Consortium for Southeastern Hypertension Control and in 2009, her research was featured by the American Society of Hypertension. In 2010, she was elected as Fellow in the American College of Cardiology, one of the few pharmacists to receive this honor.

Paul Doering, M.S.
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.
Reginald F. Frye 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
for journals including Pharmacotherapy and has been a reviewer on NIH study sections. The pharmaceutical industry, private foundations, and the NIH have funded his research.

**Folakemi Odedina, Ph.D.**
Dr. Odedina is a Professor in the Department of Pharmaceutical Outcomes and Policy at the University of Florida College of Pharmacy. Odedina’s research program focuses on the predictors of health disparities and cost-effective, community-based behavioral interventions to improve the health of Black men. She has directed more than 20 research projects, including: (1) the Florida A&M University Center for Minority Prostate Cancer Training and Research (CMPC), which comprises a trans-disciplinary team of clinical, behavioral and basic scientists; and (2) a landmark Department of Defense prostate cancer research project which accrued over 3,000 Black men in Florida. Her initiatives include the Men’s Health Initiative and the Black Men’s Health Consortium in Florida. Odedina’s research traverses across the world with an international consortium group in Africa, Caribbean Islands, Europe and the United States. She has received numerous awards for her work, including the 1st American Society of Health-Systems Pharmacy/ Association of Black Health-System Pharmacists Leadership Award for Health Disparities (2009).

**Jennifer Ashton, Pharm.D., BCPS**
Dr. Ashton is a clinical pharmacy specialist in Cardiovascular Medicine and Surgery at Shands at the University of Florida. She is also a clinical assistant professor of pharmacy practice at the University of Florida College of Pharmacy. Dr. Ashton received her Pharm.D. from the University of Florida in 2008. She then completed her Pharmacy Practice residency at Shands at the University of Florida followed by a specialty residency in Critical Care at the University of Kentucky Chandler Medical Center. Her areas of interest include perioperative arrhythmias following cardiothoracic surgery and infectious diseases management of critically ill patients.

**Bradley W. Van Riper, Pharm.D.**
Dr. Van Riper received his Doctor of Pharmacy from the University of Florida in 2000 and completed an Ambulatory Care Residency at the Suwannee River Area Health Education Centers (AHEC)/University of Florida College of Pharmacy. He is currently a Pharmacy Manager at Walgreens and adjunct faculty at the University of Florida College of Pharmacy and College of Nursing. Dr. Van Riper precepts a student each month on his Advanced Community Pharmacy Practice rotation and has twice been named Preceptor of the Year. He has been performing MTM in a busy retail pharmacy on a regular basis for almost two years. His experiences with putting MTM into practice have made him a respected and sought after speaker in this area. Dr. Van Riper has spoken at the UF Pharmacy Practice Monthly Seminar as well as at the Florida Society of Health-System Pharmacists Annual Meeting in August, 2011. The latest MTM venture he has entered into includes an “exchange” program with the University of Florida College of Pharmacy MTM Call Center. Dr. Van Riper is also one of six appointed members to the Pharmacist’s Letter Topic Selection Committee and serves in a Peer Review capacity for them as well.

**Katherine Vogel Anderson, Pharm.D., BCACP**
Dr. Vogel Anderson 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 Doctor 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, where she specialized in anticoagulation management. After five years she transferred to the VA geriatric primary care clinic, where she managed anticoagulation, hypertension, and diabetes,
among other disease states, as part of a multi-disciplinary healthcare team. Dr. Vogel Anderson joined the Gainesville UF faculty in 2010. In addition to her teaching responsibilities, Dr. Vogel Anderson practices at an Internal Medicine and Medical Specialties Clinic at Shands Medical plaza.

Karen Whalen, Pharm.D., BCPS, CDE
Dr. Whalen 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.
## Appendix B. Schedule of Course Activities/Topics

<table>
<thead>
<tr>
<th>Week</th>
<th>Module</th>
<th>Lecture Topic</th>
<th>Lecturer</th>
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<tr>
<td>1</td>
<td>Introduction to Cardiovascular</td>
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<td>1.2 Meet the Experts</td>
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<td>1.3 Practice Perspectives</td>
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<td>Curricular Threads</td>
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<td>1.4 Literature Thread – Guideline to</td>
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<td>Using Guidelines – Part I</td>
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<td>1.5 Guidelines – Part II</td>
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<td>1.6 Communication Thread - Cultural</td>
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<td>3.4 Example HTN/Lipid Visits</td>
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<td>Angina &amp; Atrial Fibrillation</td>
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<td>Cooper-DeHoff</td>
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<td>4.2 Chronic Stable Angina</td>
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<td></td>
<td>4.3 Atrial Fibrillation</td>
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<td>4.4 Example Anticoagulation Visit</td>
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<td>5.2 VTE</td>
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<td>5.3 VTE MTM Cases</td>
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<td>Heart Failure</td>
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<td>6.5 CV PK/TDM</td>
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### Exam Schedule

**Midterm Exam:** May 24, 2014  
**Final Exam:** June 14, 2014
## Appendix C. Assignments and Learning Responsibilities

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<tr>
<th>Week</th>
<th>Reading Assignment</th>
<th>Learning Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Review course syllabus&lt;br&gt;Review MTM core elements&lt;br&gt;Comparative Effectiveness of Medication Adherence Interventions&lt;br&gt;IOM Standards for Guidelines&lt;br&gt;Progress in Evidence-Based Medicine</td>
<td>View all lectures for week 1&lt;br&gt;Complete assigned readings&lt;br&gt;Discussion board posting – CV experience/intentions&lt;br&gt;Adobe Connect session 1.5 hours</td>
</tr>
<tr>
<td>2</td>
<td>JNC 8 (2014 HTN Guidelines)&lt;br&gt;HTN in the Elderly pp. 2437-2442</td>
<td>View all lectures for week 2&lt;br&gt;Complete assigned readings&lt;br&gt;Discussion board posting – cultural competence&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;Complete assignments&lt;br&gt;• HTN exercise&lt;br&gt;QUIZ</td>
</tr>
<tr>
<td>3</td>
<td>2013 ACC/AHA Guideline on the Treatment of Blood Cholesterol to Reduce Atherosclerotic Cardiovascular Risk in Adults</td>
<td>View all lectures for week 3&lt;br&gt;Complete assigned readings&lt;br&gt;Discussion board posting – lipid POC testing&lt;br&gt;Adobe Connect session 1.5 hours&lt;br&gt;MIDTERM EXAM</td>
</tr>
<tr>
<td>4</td>
<td>2007 Angina Guideline Update&lt;br&gt;DiPiro Chapter 8 (AFib/Flutter section)&lt;br&gt;ACC/AHA/ESC 2014 guidelines for the management of AFib&lt;br&gt;AFFIRM trial</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&lt;br&gt;• Lipid and HTN SOAP Notes</td>
</tr>
<tr>
<td>5</td>
<td>DiPiro chapter 9 - VTE</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;Complete assignments&lt;br&gt;• Comprehensive med review&lt;br&gt;QUIZ</td>
</tr>
<tr>
<td>6</td>
<td>2013 AHA/ACCF Guideline for the Management of Heart Failure</td>
<td>View all lectures for week 6&lt;br&gt;Complete assigned readings&lt;br&gt;Complete assignments&lt;br&gt;FINAL EXAM</td>
</tr>
</tbody>
</table>

*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.