PHASE 6632 (3 credits)  
Foundations of Medication Therapy Management II

Course Purpose

The course will introduce the student to the business elements of medication therapy management (MTM), business plan development and creation, MTM models of practice, practice design, documentation systems, and basic financial principles needed for the successful provision of MTM. An interactive component of the course will involve discussions on all aspects of MTM practice and creation of an MTM business plan.

Course Faculty and Office Hours

Course Coordinator:
Michael J. Schuh, BS, PharmD, MBA
Assistant Professor of Pharmacy, Family and Palliative Medicine
Mayo College of Medicine

Clinical Assistant Professor
Department of Pharmacotherapy & Translational Research
University of Florida
Office: Mayo Clinic in Jacksonville
Phone: (904) 953-2673
Email: mSchuh@cop.ufl.edu

Please see Appendix A for a listing of all faculty members 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. Adobe Connect sessions are one night per week and time and date will be determined at the beginning of the term. Attendance is required for these sessions.

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: Demonstrate comprehensive knowledge related to a specific discipline within the pharmaceutical sciences. The course is intended to provide the student with a foundation of core business knowledge and skills necessary for a provider of MTM services. The student will learn how to develop and create a business plan for
the provision of MTM services. Additionally, the student will develop confidence in the basic business principles of planning, marketing, management and finance as applied to building a successful MTM service.

**Course Objectives**

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

1. Create an MTM business plan proposal
2. Explain the importance of business planning
3. Compare and contrast various MTM service models
4. Perform and utilize a SWOT analysis
5. Assess the need for MTM services
6. Evaluate and assess the competition with regard to MTM services
7. Market MTM services effectively to stakeholders
8. Outline MTM service work flow and explain potential personnel implications
9. Use financial principles and projections to predict the long term financial viability of an MTM service
10. Document MTM services using various methods, including electronic systems and platforms
11. Discuss the legal and regulatory considerations regarding an MTM practice

**Pre-Requisite Knowledge and Skills**

The student must have successfully completed a Bachelor of Science in Pharmacy or a Doctor of Pharmacy degree, and must be licensed and in good standing with their respective state Board of Pharmacy. The student must be in good academic standing with the MS-MTM degree program.

**Course Structure & Outline**

The course is offered in a blended learning format that utilizes a combination of live online classroom instruction, self-directed learning (videos, readings, web-based 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. An outline of the course activities and their respective contribution to course credit assignment can be found in the accompanying course schedule document (Appendix B).

**Course Outline/Activities**

Refer to Appendix B for the course schedule and outline of activities.
Textbooks

Required Textbooks


Suggested Textbooks


Other Required Readings


Cranor CW, Bunting BA. The Asheville Project: long-term clinical, humanistic, and economic outcomes of a community-based medication therapy management program for asthma. Available at: http://healthmaprx.com/yahoo_site_admin/assets/docs/05_Bunting_133-147.90105502.pdf


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

- Interviewing a practicing MTM pharmacist
- Obtaining an NPI number
- Producing a budget for an MTM practice using the text CD-ROM
- Becoming trained on the Outcomes Management PBM platform software
- Producing business plan proposal for a financially viable MTM practice
- Weekly live online learning sessions

Student Evaluation & Grading

Evaluation Methods

Written Assignments 25%

- Week 2: Interview activity and paper - 5%
- Outcomes training – 5% Grade deduction if screen shot proof of training (registration) not received by the end of the final week of the course
- Week 3 written assignment - Competition, Target Market, Marketing Assets, SWOT 10%
- Week 5 written assignment – Work Flow, Human Resources 10%

Business plan proposal 25%

Quizzes 10%

Week 2 – 5%
Week 4 – 5%

Class participation 10% (includes active participation in all activities such as Adobe Connect sessions, interviews, and discussion board, professionalism, punctuality)

Final Exam - 30%
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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<tr>
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<tr>
<td>C</td>
<td>73.3-76.5</td>
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<td>E</td>
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Class Attendance Policy

Attendance at the weekly live online Adobe Connect sessions is mandatory. Students who miss a live learning session should contact the facilitator as soon as possible (preferably before the missed session). Upon approval of the facilitator, students may make up a missed session by completing a brief written assignment.

Quiz/Exam Policy

The 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 require the use of a proctoring system. More information on the proctoring system may be found at: http://www.proctoru.com/

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. 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.
**Make-up Quiz/Exam Policy**

Scheduled exams should only be missed for REAL EMERGENCIES. A real emergency will defined by the facilitator or coordinator. 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.

**Policy on Old Quizzes and Assignments**

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

**Assignment Deadlines**

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:
Appendix A: Directions for Contacting Faculty & Course Faculty List

Directions for Contacting Course Faculty
All questions pertaining to course logistics should be posted on the course logistics discussion board. Questions for individual lecturers should be posted on the discussion under the relevant topic, so that classmates may benefit from the discussion. Please do not email the lecturers directly unless directed to do so by the course coordinator, or if the question is of a personal nature, i.e., not related to clarification of course content.

Instructors

Daniel E. Buffington, PharmD, MBA
Dr. Buffington has been actively involved with the development pharmacist managed private "specialty-practice" models providing Medication Therapy Management services, clinical research management, and forensic pharmacology. He has also served as faculty for Medical, Pharmacy and Nursing Schools, providing both didactic and experiential training. He has served on several national task forces, committees focused on integrating and expanding reimbursement. He currently represents pharmacists on the American Medical Association (AMA) Current Procedural Terminology (CPT) committee and helped to develop the national MTM billing codes that describe pharmacists’ services. His practice focuses on patients who take chronic or high-risk medication therapy and helps to serve as a resource point between patients and their prescribers to optimize therapy and reduce risks of adverse side effects and drug interactions. His practice has been actively involved with developing clinical practice management tools, drug regimen analytics, health care claims analysis and electronic medical records applications.

Lance Enfinger, PharmD, MBA
Lance Enfinger received his bachelor’s degree in biology at Florida State University, and then graduated from the University of Florida with a doctorate degree in pharmacy and a Master’s degree in Business Administration. He currently works as pharmacy manager with CVS Corporation and precepts student pharmacists on IPPE and APPE rotations. Dr. Enfinger has also serves as an adjunct professor for LECOM School of Pharmacy, where he coordinated and taught their Pharmacy Management course required for 2nd year students. His areas of interest include Medication Therapy Management, marketing, and corporate strategy.

Lorelei Farr, PharmD
Dr. Farr accepted a faculty position as Clinical Instructor for the University of Mississippi School of Pharmacy in October 2009. She serves as a team member for the Patient Care Management Program, a grant collaborative with the Delta Health Alliance, which brings clinical services to the underserved population of the Mississippi Delta. She provides specialized Medication Therapy Management, specifically in the areas of diabetes and asthma, to this population.

Joseph Gruber, RPh, CGP, FASCP
Joseph Gruber is responsible for demonstrating the value of Mirixa’s clinical pharmaceutical care programs and MirixaPro® platform to healthcare industry stakeholders and professional organizations. Joseph is a Board Certified Geriatric Pharmacist and Certified Gerontologist and has practiced in the long term care and senior care setting for over 20 years. Prior to joining Mirixa he was President and CEO of ASCP Ventures. Joseph has spoken and published at the national level on many patient care topics.

Patty Kumbera
Patty Kumbera is a registered pharmacist, and co-founder and Chief Operating Officer for Des Moines, Iowa-based, Outcomes Pharmaceutical Health Care. Outcomes helps payors such as consumers, employers, Medicare/Medicaid programs, pharmaceutical manufacturers and health plans get more value from their medication purchases and reduce Medication Waste. At a time when the importance of medication therapy management was just beginning to come to the attention of the health care industry, Kumbera and her Outcomes partners were the first to develop a practical business model for advanced pharmacist services and compensation. Today, over 33,000 pharmacists, trained by Outcomes, have the opportunity to care for more than 2.5 million covered patients nationwide. As an expert on the subject of medication therapy management, Patty is a frequent speaker and contributor to health symposiums and magazines. Kumbera is an active contributor to organized pharmacy on the local, state and national
level since graduating from Drake University in 1988, and was awarded the Drake University College of Pharmacy and Health Science’s Alumni Achievement Award in 2009.

Allan Nichol
Dr. Allan Nichol earned a BS in pharmacy from Ohio Northern University and his Doctor of Pharmacy from Nova Southeastern University. He is or has been a consultant for many major universities and corporations including Roxane Laboratories, Seatech, Ohio Northern University, Amylin Pharmaceuticals, and Cedar Locust Pharmacy. He currently maintains academic appointments at Ohio State University, The University of Charleston, University of Toledo, and Ohio Northern University. His many awards and recognitions include visionary in the pharmacy profession and one of the fifty most influential pharmacists advancing pharmaceutical care as the standard of practice by American Druggist Magazine. Florida’s first Dupont-Pharma innovative practice award and the Ohio innovative practice award. He is past CEO of the New Jersey Pharmacists Association and is active member of many pharmacy organizations including APhA and The Ohio Pharmacists Association. His current positions are Ceuticare, Vice President of Clinical Operations, Clinical Pharmacist Grandview Family Medical Care, and Nichol & Associates, Pharmaceutical Care Consultant.

Michael J. Schuh, BS, PharmD, MBA
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 in 1982. He obtained a Master’s of Business Administration from the University of Phoenix in 2001 and a Doctor of Pharmacy from Nova Southeastern University in 2006. 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. Currently 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, pain rehabilitation, and pharmacotherapy patients. 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 and an APhA Congressional Key Contact. He has served as an active member of APhA’s MTM Task Force and is co-founder and co-coordinator of the new APhA Medication Management Special Interest Group. Dr. Schuh is also a Clinical Assistant Professor of Pharmacy Practice at the University of Florida, and holds clinical appointments at other leading universities. Outside of pharmacy, he served as a National Quality Forum Advisory Panel Member and 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.

Tommy Smith, PharmD, JD
W. Thomas (Tommy) Smith graduated from the Saint Louis College of Pharmacy in 1994 with a Doctor of Pharmacy degree. Upon graduation, Dr. Smith served as the Director of Operations for Corum Health Services, Inc., a long-term care pharmacy in Saint Louis, Missouri. In order to expand his interests in the areas of healthcare regulation and policy and disability law, Dr. Smith went back to school to study law. Dr. Smith earned his Juris Doctor degree in 2005, along with a Certificate in Health Law, from the prestigious Center for Health Law Studies at Saint Louis University School of Law. Afterward, Dr. Smith joined the faculty of the Saint Louis College of Pharmacy where he taught the Introduction to Pharmacy Practice, Pharmacy Law and Ethics, and Biomedical Ethics courses. In 2007, the College presented Dr. Smith with the Student Enrichment Award. Dr. Smith joined the faculty of the University of Florida (UF) College of Pharmacy in July 2008. During the fall semester, he coordinates and teaches the “Pharmacy Law and Ethics” course to residential doctor-of-pharmacy students in their third professional year of study, and “Structure Process and Outcomes of Regulations” to students in their first semester of UF’s online Master of Science in Pharmacy program. Dr. Smith is also very involved in various professional organizations, including the American Society for Pharmacy Law, the American Pharmacists Association, and the American Bar Association (ABA). Within the ABA, he holds leadership positions in both the Health Law Section (Chair of the Medical Research, Biotechnology, and Clinical Ethical Issues Interest Group and a Vice-Chair of the 2010 & 2011 Emerging Medical Issues conferences planning committee) and the Commission on Mental and Physical Disability Law (Commissioned by the President of the ABA; Chair of the Editorial Advisory Board). In 2010, Dr. Smith was also appointed to serve a 3-year term on the Special Committee on Bioethics and the Law by the President of the ABA.

Tim Sullivan
Tim Sullivan is a registered pharmacist with a PharmD degree from Drake University. Upon graduation in 2010 Tim completed a residency with Iowa based MTM company, Outcomes Pharmaceutical Health Care. Since completion of his residency Tim has stayed on with Outcomes in the role of Senior Clinical Services Associate. In his current capacity, Tim is responsible for meeting the clinical needs of his company’s varied client base while providing support to a network of over 40,000 pharmacists trained to offer Outcomes MTM services. As an expert in the development of MTM curriculum, Tim also spends time as a liaison between Outcomes and numerous Colleges of Pharmacy across the country.
## 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>10/22 – 10/28</td>
<td>Course Introduction and The Business Plan</td>
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<td>1.1 Course Overview</td>
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<td>1.2 MTM Overview/Business Planning</td>
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<td>1.3 The Business Plan</td>
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<td>1.4 Writing and Presenting the Business Plan</td>
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<td>2.1 Current State of MTM</td>
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<td>2.2 Assessing Need for MTM Services and Developing the Business Concept</td>
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<td>2.3 Medicare Modernization Act</td>
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<td>2.4 HIPAA</td>
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<td>11/05 - 11/11</td>
<td>Assessing the Competition, The Target Market and Marketing Assets</td>
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<td>3.2 The Target Market</td>
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<td>MTM Models, The Mississippi Model</td>
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<td>4.3 The MS Model</td>
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<td>4.4 Evaluating Physical Work Flow, Setting</td>
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<td>11/19 - 11/25</td>
<td>Documentation Applications and Human Resources Payment, Overcoming Barriers to Payment</td>
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<td>5.1 Documentation Applications to Work Flow, Budgeting</td>
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<td>5.3 Payment Methodologies for MTM Services</td>
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<td>5.4 Identifying and Resolving Payment Barriers</td>
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<td>11/26 - 12/02</td>
<td>Financial Projections, Documentation, Value</td>
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<td>6.1 Financial Projections</td>
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<td>6.3 Demonstrating MTM Value</td>
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<td>7</td>
<td>12/3 – 12/08</td>
<td>Outcomes, Mirixa, CeutiCare</td>
<td>Kumbera/Sullivan, Gruber, Nichol</td>
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### Exam Schedule
### Final Exam: December 8, 2012

#### Assignments and Learning Responsibilities:

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<tr>
<th>Week</th>
<th>Reading Assignment</th>
<th>Learning Responsibility</th>
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| 1    | Schumock, Chapter 1, 2, 10 ; APhA business plan article | View all lectures for week 1  
Apply for NPI  
(screen shot of completion submitted) |
| 2    | Schumock, Chapter 3, 6 | View all lectures for week 2  
Adobe Connect session (1.5 hrs)  
Written Assignment: Interview Activity  
**Quiz** |
| 3    | Schumock, Chapter 4, 7; APhA mktg article | View all lectures for week 3  
Adobe Connect session (1.5 hrs)  
Written Assignment: Competition, Target Market, Marketing Assets, SWOT |
| 4    | Cranor articles  
Schuh article  
Schumock, Chapter 5 | View all lectures for week 4  
Adobe Connect session (2 hrs)  
**Quiz** |
| 5    | Schumock, Chapter 8 | View all lectures for week 5  
Adobe Connect session (2 hrs)  
Written Assignment: Work Flow, Human Resources |
| 6    | The Lewin Report | View all lectures for week 6  
Adobe Connect session (1.5 hrs)  
Text CD-ROM |
| 7    | Nichol article | View all lectures for week 7  
Adobe Connect session (1.5 hrs)  
Submission of business plan proposal  
Outcomes training  
(screen shot of completion submitted)  
**FINAL** |