

PHA 6630-Medication Therapy Management: A Hematological Focus Spring 2014 - 3 Semester Credit Hours

Course Purpose:

The course is intended to familiarize students with the provision of MTM in patients with **hematological and oncological** disorders that range from common to complex. The student will gain hands-on practice in the core elements of MTM for patients with **hematological** 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 Credits: 3

Course Faculty and Office Hours

Course Coordinator:

Karen Riley BScPhm, Pharm D, BCPS, CGP, BCACP, CDE

Email: kdriley@ufl.edu

Phone: 519-332-6615 (home) 519-339-0614 (cell)

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 **hematological** 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 live online classroom instruction, self-directed learning (videos, readings, web-based learning) online, 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** for the course schedule and outline of activities.

Textbooks

There is no required text for this course. The suggested reference text is Dipiro JT, Talbert RL, Yee GC, et al, eds. Pharmacotherapy: A Pathophysiological Approach, 8/9th ed. (ISBN 978-0-07-170354-3) – available via Access Pharmacy in the HSC database.

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

Active Learning Requirements

- Discussion board posting (3). **All postings need to be done before 6pm Sunday evening prior to the Adobe Connect Session. 50 points will be deducted for late submissions.**
- Weekly live online learning sessions (6)
- Case studies - comprehensive medication review (1)
- Patient satisfaction survey part 1 (assignment posting) and part 2 (discussion posting)
- Written SOAPE note (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

Evaluation Methods

Assignments 25%

- Assignment 1 – Patient Satisfaction Survey – 7.5%
- Assignment 2 –SOAPE note – 7.5%
- Assignment 3 -Comprehensive Medication Review - 10%

Quizzes 10%

- Quiz 1 - 5%
- Quiz 2 - 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>.

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

Class Attendance Policy

Attendance at the weekly adobe connect sessions is mandatory and participation in the group discussion is required. Because there is 3 opportunities to attend the adobe connect sessions, students who know that 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/>

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 in full and an evidence-based rationale for why the student feels their response is accurate. The exam will be regraded in full by a third part. 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 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

Late Assignments

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

General College of Pharmacy Course Policies

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

University Grading Policies

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

Please see the following URL for this information:

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

Complaints

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



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

Other Course Information

Appendix A: Directions for Contacting Faculty & Course Faculty List

Appendix B. Schedule of Course Activities/Assignments and Learning Responsibilities

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.

Course Coordinator

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

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.

Instructors

Melissa Butler Pharm D, BCOP- Melissa.Butler@orlandohealth.com

Dr. Butler is a clinical pharmacist in oncology at the UF Health Cancer Center Orlando Health. She received her Doctor of Pharmacy from the University of Pittsburgh in 2002. She then completed a PGY1 residency at Health Alliance at the University Hospital in Cincinnati, OH (2002-2003). She completed her PGY2 residency in oncology at Shands at the University of Florida in Gainesville, FL (2003-2004).

Paul Doering, M.S - doering@cop.ufl.edu

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.

Kourtney LaPlant Pharm D, BCOP Kourtney.LaPlant@va.gov;

Dr. LaPlant is an Oncology Clinical Pharmacist at the Gainesville VA Medical Center. She did her undergrad studies and earned her Pharm.D. at the University of Florida. After graduation, Kourtney completed a Geriatrics Residency at the VA and transitioned into the oncology department upon completion. She received her Board of Pharmacy Specialties certification in Oncology Pharmacy in 2012. Kourtney is part of the oncology team and works side by side with Hematology and Oncology fellows and attendings to coordinate care. She maintains her longtime relationship with UF by precepting two pharmacy students each month, lecturing throughout the year and co-facilitating an Oncology elective for the College of Pharmacy.

Paige Louzon Pharm D, BCOP- Paige.louzon@gmail.com; paige.louzon@va.gov

Dr. Louzon graduated with a Doctor of Pharmacy degree from the University of Florida in 2007. She went on to complete a PGY-1 Pharmacy Practice Residency with Orlando Health in Orlando, FL. Having always had a strong interest in oncology, Dr. Louzon then moved on to her current position as an Oncology Pharmacy Specialist at the Malcolm Randall VA Medical Center in Gainesville, FL. There she works with an interdisciplinary team with both the outpatient chemotherapy clinic and inpatient oncology service. Dr. Louzon also lectures for the UF College of Pharmacy and serves as an oncology preceptor for residents and 4th year students. She is also a past President of North Central FSHP and has served as chair of the FSHP Educational Affairs Council.

Tara McCabe Pharm D- MCCABT@shands.ufl.edu

Dr. McCabe obtained her PharmD degree from the University of Rhode Island. She completed her PGY1 pharmacy residency at Massachusetts General Hospital and her PGY2 pediatric pharmacy residency at the University of Kentucky. She is currently a Pediatric Hematology/Oncology Clinical Pharmacy Specialist at Shands Hospital for Children at the University of Florida

Michael J. Schuh, BS, PharmD, MBA- schwarx1@comcast.net

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 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. 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. Dr. Schuh is currently a Mayo Clinic Bronze Level Quality Fellow. He is an active member of the Northeast Florida Society of Health System Pharmacists, Florida Society of Health System Pharmacists, American Pharmacists Association, and Florida Pharmacy Association. On a national level he is past Chair of APhA's Academy of Pharmacy Practice and Management Administrative Section 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.

Sami Shafiq Pharm D, CPh, AAHIVP Sami.Shafiq@walgreens.com

Dr. Shafiq has been involved in the care of HIV-infected individuals for over 18 years. She has always demonstrated leadership, commitment, involvement and service in the treatment management of her patients. She is currently working as The Lead HIV/AIDS Clinical Pharmacist, Miami Dade County, Walgreens Pharmacy. She provides education and training to pharmacists regarding the proper medication management of HIV therapy. She is a mentor and a preceptor for the PharmD candidates from Nova Southeastern University, Palm Beach Atlantic University and Howard University. She has affiliation as an adjunct faculty at Nova Southeastern University, College of Pharmacy and Barry University, Physician Assistant Program. She has been a member of the expert peer review panel for the monthly Pharmacist Letter since 2009. In addition, she has been a member of the Steering Committee for AAHIVM for the Florida Chapter since 2009. In 2010, she has served on the expert pharmacist (role delineation) panel and also has participated in item writing for the AAHIVP exam. Dr. Shafiq recently joined the editorial advisory group for the HIV Specialist Magazine by AAHIVM. Dr. Shafiq provides continuing education to pharmacy, nursing, and dietetic associations and other healthcare providers. She currently serves as an Executive Board Member of the Broward County Pharmacy Association. Recently, Dr. Shafiq was invited as a speaker by the Global Adolescent Working Group, IMPAACT conducted by University of Miami, funded by NIH to speak with adolescents in various parts of the world and address any questions related to HIV Drug Interactions. Dr. Shafiq is a member of the speaker bureau of Miami-Dade County Area Health Education Center and participates in educating the community on the topics related to HIV/AIDS. She is an Educator/ Faculty for The Simply Speaking HIV, CME Series, Rush Medical University Speaker Bureau since 2006. She was nominated for the Innovative Pharmacy Practice by Florida Pharmacy Association, for the years 2009 and 2010. She was the winner of the Innovative Pharmacy Practice by Florida Pharmacy Association, for the year 2011. Lastly, Dr. Shafiq was the Alumnus of the year, 2011 for College of Pharmacy, Nova Southeastern University.

Teri West-Pharm D twest@lecom.edu

Dr. West is an Assistant Professor of Pharmacy Practice at the LECOM School of Pharmacy in Bradenton, Florida. Her current practice site is in Assisted Living Communities providing medication therapy management services and education to seniors in collaboration with Vanguard Advanced Pharmacy Systems. She is a board certified pharmacotherapy specialist. Her teaching experiences include pharmacotherapy topics relevant to chronic diseases and older adults.

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

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.

Debbie Wilson PhD - debbie.wilson@ufl.edu

Dr. Wilson, PhD 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 Co-Coordinator of the UF College of Pharmacy course Professional Communications in Pharmacy Practice. 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/Reading Assignments

Week	Module	Lecture Topic	Lecturer
1 03/03-03/09	Introduction to Hematologic Disorders	1.1 Course Intro/Overview 1.2 Meet the Experts 1.3 Practice Perspectives	Riley Whalen Shafiq
2 03/10-03/16	Anemias	2.1 Anemias – Part I 2.2 Anemias – Part II 2.3 Anemia MTM cases 2.4 Sickle Cell	West West West McCabe
3 03/17-03/23	HIV	3.1 Overview of HIV I 3.2 Overview of HIV II 3.3 Opportunistic Infections 3.4 HIV MTM Cases	Shafiq Shafiq Shafiq Shafiq
4 03/24-03/30	Potpourri	4.1 Allergic Drug Reactions 4.2 Business Thread – Entrepreneurialism 4.3 Leadership I 4.4 Leadership II	Doering Schuh Riley Riley
5 03/31-04/06	Introduction to Oncology	5.1 Communication Thread: Communicating with Terminally Ill Patients 5.2 Principles of Oncology I 5.3 Principles of Oncology II	Wilson LaPlant LaPlant
6 04/07-04-13	Supportive Care/Common Cancers	6.1 Supportive Care – Part I 6.2 Supportive Care – Part II 6.3 Breast Cancer – Part I 6.4 Prostate Cancer	Louzon Louzon Butler LaPlant
7 04/14-04/18	Lymphoma/Leukemia	7.1 Lymphoma 7.2 Leukemias I 7.3 Leukemias II	LaPlant Butler Butler

Exam Schedule: Midterm Exam 03/28 to 03/30/14

Final Exam 04/18/14 to 04/20/14

Week	Reading Assignment	Learning Responsibility
1 03/03-03/09 (5 hours)*	MTM HIV article 2009 Evaluation of HIV/AIDS Medication Therapy Management MTM HIV article 2011 Antiretroviral Therapy Adherence. Medication Use and Health care Costs pdf Anemia Chapter 109.Dipiro Sickle Cell Disease pdf	View all lectures for week 1 Complete assigned readings Adobe Connect session 1.5 hours Discussion board posting
2 03/10-03/16 (6 hours)*		View all lectures for week 2 Complete assigned readings Adobe Connect session 1.5 hours Patient satisfaction survey Part 1
3 03/17-03/23 (6 hours)*	HHS Panel guidelines for HIV; CDC guidelines for opportunistic infections HHS Panel guidelines for HIV http://aidsinfo.nih.gov/guidelines CDC guidelines for opportunistic infections	View all lectures for week 3 Complete assigned readings Adobe Connect session 1.5 hours Discussion board posting *Business plans for adobe* QUIZ 1
4 03/24-03/30 (8 hours)*	Entrepreneurship: The Engine that Drives Innovation (recommended) Peter F. Drucker's Innovation and Entrepreneurship book (recommended) Goleman- What Makes a Leader?pdf Leadership Alchemy pdf Leadership Crisis report pdf	View all lectures for week 4 Complete assigned readings Adobe Connect session 1.5 hours MIDTERM EXAM (2.5 hours)
5 03/31-04/06 (6 hours)*	Cancer Treatment and Chemotherapy Chapter 135 Dipiro	View all lectures for week 5 Complete assigned readings Adobe Connect session 1.5 hours *Business plans for adobe* Discussion Board posting - Patient satisfaction survey Part 2 Comprehensive med review
6 04/07-04/13 (7 hours)*	Nausea and Vomiting Chapter 42 Dipiro Breast Cancer Chapter 136 Dipiro Prostate cancer Chapter 139 Dipiro National Comprehensive Cancer Network Guidelines on Antiemesis National Comprehensive Cancer Network Guidelines on Supportive Care. Available online: www.nccn.org	View all lectures for week 6 Complete assigned readings Adobe Connect session 1.5 hours *Business plans for adobe* SOAPE notes QUIZ 2
7 04/14-04/18 (10 hours)*	Lymphoma Chapter 140 Dipiro Chronic Leukemias Chapter 143 Dipiro Acute Leukemias Chapter 142 Dipiro Educational session: managing chronic myeloid leukemia as a chronic disease	View all lectures for week 7 and 8 Complete assigned readings FINAL EXAM (2.5 hours)

*only students required to do so will be presenting their business plans based on their semester.