# **Cover Sheet: Request 10861**

# PHA5787C Patient Care 5: Endocrinology and Women's & Men's Health

Info	
Process	Course New Ugrad/Pro
Status	Pending
Submitter	Beck,Diane Elizabeth beck@cop.ufl.edu
Created	3/15/2016 2:03:56 AM
Updated	4/15/2016 10:45:20 PM
Description	Fifth of an eight course sequence that prepares the student to provide patient-
	centered care by serving as a collaborative interprofessional team-member who is an
	authority on pharmacotherapy. This course focuses on providing patient-centered
	care to patients who have endocrine disorders or gender specific-health related
	needs.

# Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	COP - Interdisciplinary Studies	Whalen, Karen		3/15/2016
No document	changes				
College	Approved	COP - College of Pharmacy	Beck, Diane Elizabeth		3/16/2016
No document	changes				
University Curriculum Committee	Comment	PV - University Curriculum Committee (UCC)	Case, Brandon	Added to the April agenda.	3/22/2016
No document	changes				
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			3/22/2016
No document	changes				
Statewide Course Numbering System					
No document	changes			1	ł
Office of the Registrar					
No document	changes				
Student Academic Support System					
No document	changes				
Catalog					
No document	changes			·	
College Notified					
No document	changes				

# **Course|New for request 10861**

# Info

**Request:** PHA5787C Patient Care 5: Endocrinology and Women's & Men's Health **Submitter:** Beck,Diane Elizabeth beck@cop.ufl.edu **Created:** 3/15/2016 2:03:56 AM **Form version:** 1

# Responses

Recommended PrefixPHA Course Level 5 Number 787 Lab Code C Course TitlePatient Care 5: Endocrinology & Women's & Mens Health Transcript TitlePt Care 5: Endo Effective Term Spring Effective Year2017 Rotating Topic?No Amount of Credit6

#### Repeatable Credit?No

S/U Only?No Contact Type Regularly Scheduled Degree TypeProfessional

Weekly Contact Hours 15 Category of Instruction Intermediate Delivery Method(s)On-Campus Off-Campus Online

**Course Description** Fifth of an eight course sequence that prepares the student to provide patient-centered care by serving as a collaborative interprofessional teammember who is an authority on pharmacotherapy. This course focuses on providing patient-centered care to patients who have endocrine disorders or gender specific-health related needs.

**Prerequisites** Completion of all Year 1 Pharm.D. program coursework including milestones

& PHA 5781 Patient Care 1\*

& PHA 5755 Principles of Medical Microbiology, Immunology, and Virology

& PHA 5782 Patient Care 2: Infectious Diseases and Oncology\*

& PHA 5783C Patient Care 3: Cardiovascular and Pulmonary Diseases\*

& PHA 5784C Patient Care 4: Gastrointestinal and Renal Diseases\*

\*These pre-requisites may be waived with the consent of the Academic Performance Committee

**Co-requisites** PHA 5163L Professional Practice Skills Lab IV

**Rationale and Placement in Curriculum** This course requires the foundational principles taught in the courses during year 1 and fall semester of year 2. Patient cases and assessments will require the student to apply concepts learns in the prior Patient Care courses.

The course prepares the student for the third year courses and the fourth year APPEs.

#### **Course Objectives**

1. Upon completion of this course, the student will be able to provide patientcentered care for patients with one or more of the following disorders or pharmacotherapy needs:

- A. General management of diabetes
- B. Management of diabetes complications
- C. Diabetes health and wellness
- D. Thyroid disorders
- E. Women's health in early reproductive life (e.g., contraception)
- F. Women's health during Pregnancy and Lactation
- G. Women's health in mid to late life (e.g., hormone replacement, osteoporosis)
- H. Breast cancer
- I. Men's health (e.g., benign prostatic hypertrophy, erectile dysfunction)
- J. Prostate cancer
- K. Urinary incontinence
- L. Sexually transmitted diseases in women and men

2. Specifically, given a case of a patient with one or more of the above disorders/pharmacotherapy needs:

a. Integrate knowledge and use clinical reasoning skills in accomplishing the following steps when managing a patient with the disease state:

 Collect: Gather subjective and objective information about the patient in order to understand the relevant medical and medication history and clinical status of the patient.
 Subjective and objective information is collected through patient interview,

medical record review, pharmacy profile review, and communication with other members of the health care team.

2. A holistic view is initiated during collection in order to consider physiological, psychological, and sociological variables of the patient and this view is maintained throughout the patient care process.

ii. Assess: Assess the information collected and analyze the clinical effects of the patient's therapy in the context of the patient's overall health goals in order to identify and prioritize problems and achieve optimal care.

1. Understand, explain, and assess a patient's health status.

2. Interpret physical and patient assessment findings

3. Assess each medication for appropriateness, effectiveness, safety, and patient adherence.

4. Assess health and functional status, risk factors, health data, cultural factors, health literacy, and access to medications or other aspects of care.

5. Assess immunization status and the need for preventive care and other health care services.

6. Integrate knowledge, clinical experience, and patient data to formulate and test hypotheses about the etiology of medication-related problems. (Generate hypotheses)

7. Establish potential and actual medication-related problems.

iii. Plan: Develop an individualized patient-centered care plan in collaboration with other health care professionals and the patient/caregiver.

1. Therapeutic Goals: Develop specific and general therapeutic goals for the patient. These goals achieve clinical outcomes in the context of the patient's overall health care goals and access to care.

2. Therapeutic Plan: Integrate knowledge, evidence-based literature/information, clinical experience, patient data, patient goals and desires, and the prescriber's judgment when developing the best pharmacotherapeutic plan for the patient.

a. Therapeutic Alternatives: Evaluate pharmacotherapeutic alternatives for the patient before establishing the therapeutic plan.

b. Develop the Therapeutic Plan: This plan addresses medication-related problems and optimizes medication therapy. Considerations for the plan include:

i. Goals and desires of the patient

ii. Application of established practice guidelines, evidence-based medicine, and

population-based treatment plans in developing the plan.

iii. Accurate and patient-specific dosing (including dosage adjustment for renal/hepatic dysfunction, starting dose, maximum doses, timing of doses and pharmacokinetic design for narrow therapeutic index drugs,).

iv. Parameters for monitoring response and frequency of monitoring

v. Parameters for monitoring adverse effect and frequency of monitoring

vi. Plan for patient counseling/education

vii. Supports care continuity, including follow-up and transitions of care as appropriate.

c. Patient/Caregiver engagement: The patient/caregiver are involved through education, empowerment, and self-management.

iv. Implement: Implement the care plan in collaboration with other health care professionals and the patient/caregiver. When implementing the care plan, the following are accomplished:

1. Medication and health-related problems are addressed.

2. Preventative care including vaccine administration are provided.

3. Medication therapy is initiated, modified, discontinued, or administered as authorized.

4. Education and self-management training is provided to the patient/caregiver.

5. Refers and provides transitions of care as needed.

6. Schedules follow-up care as needed to achieve goals of therapy.

v. Follow-up (Monitor and Evaluate): Monitor and evaluate the effectiveness of the care plan and modify the plan in collaboration with other health care professionals and the patient/care giver. The following are continually monitored and evaluated:

1. Medication appropriateness, effectiveness, and safety and patient adherence through available data, biometric test results and patient feedback.

2. Clinical endpoints that contribute to the patient's overall health.

3. Outcomes of care, including progress toward or achievement of goals.

vi. Patient-Centered Care: Foster a patient-centered care approach by accomplishing the following:

1. Communicate: Succinctly communicate with other health care team members and the patient/caregiver throughout the patient care process.

2. Collaborate: Discuss with team members the specific therapeutic approaches for individual patients based on scientifically and logically validated assessment of the patient's health care needs and an ethical consideration of the patient's health care goals and desires.

3. Document: Prepare a written communication that is well-organized, logical, complete, appropriate, and evidence-based.

b. Apply and integrate foundational knowledge (i.e., pharmaceutical,

social/behavioral/administrative, and clinical sciences) throughout the patient care process. This will require the ability to:

i. Describe the pathophysiology of disease state(s) and identify appropriate drug targets (cellular/molecular), biochemical processes, and organ changes for therapeutic intervention. Specifically, for a given disease state:

1. Describe the basic pathophysiology of the disease including an explanation of the abnormal processes and the resulting disease signs and symptoms.

2. Outline risk factors and/or diagnostic indicators (e.g., lab values, diagnostic test results).

3. Determine classes of drugs that will treat the disease state and ameliorate the underlying pathophysiology and signs/symptoms.

ii. Apply knowledge about structure-activity relationships and cellular/molecular mechanisms of action to identify drug classes that are appropriate for treatment of the disease state. Specifically, for each drug class:

Identify the relevant therapeutic targets and explain the mechanism(s) of action.
 Describe major pathways for metabolism and the pharmacological/therapeutic

consequences of metabolism.

iv. Compare and contrast the therapeutic and adverse effects of drug classes that are appropriate for treating the disease state.

1. Identify the most common/serious drug interactions and adverse effects.

v. Compare and contrast the therapeutic and adverse effects of drugs within a given class and then recommend the best drug for the patient.

vi. Identify important precautions and contraindications.

vii. Recommend any unique storage, handling, or use requirements to ensure patient safety and clinical efficacy.

viii. Discuss significant pharmacokinetic and pharmacodynamic considerations.

ix. Integrate the following transcending concepts when assessing a patient and developing a care plan:

1. Apply concepts about health information and informatics in the inpatient setting (Informatics)

- 2. Evaluate cohort trials and apply to a patient's needs (Evidence-based practice)
- 3. Use clinical reasoning and clinical judgment (Problem-solving)
- 4. Address health and wellness in the context of the management of diabetes
- 5. Consider the role of drug delivery systems in the context of contraceptives
- 6. Apply dosage individualization practices in pregnant women.
- 7. Address cultural competency for lesbian, gay, bisexual, and transgender issues.

8. Address issues related to law and ethics in the context of birth control for teenagers.

- 9. Apply oncology pharmacogenomics (Personalized Medicine)
- 10. Assess the role of self-care for health issues in women and men
- 11. Use SBAR when communicating with another health professional (Interprofessional collaboration)
- 12. Consider medication safety for women's and men's health issues
- 13. Apply population-based care for women's and men's health issues

14. Apply pharmacoeconomics erectile dysfunction agents

3. Demonstrate the ability to be an effective team member by collaborating in preparing for class sessions and in solving case studies.

#### Course Textbook(s) and/or Other Assigned Reading

1. Foye WO, Lemke T, Williams DA. Foye's Principles of Medicinal Chemistry, Wolters Kluwer Health/Lippincott Williams & Wilkins, Philadelphia, PA, 7th Edition, 2013. ISBN-13:978-1609133450; ISBN-10:1609133455

2. AccessPharmacy, McGraw-Hill Professional, New York, NY (This resource is available through the UF Health Science Center Library.) The following resources will be frequently used:

o Brunton L. Goodman and Gilman's The Pharmacological Basis of Therapeutics, McGraw-Hill Professional, New York, NY, 12th Edition, 2011. ISBN-13:978-0071624428; ISBN-10:0071624422 (Available in Access Pharmacy)

Dipiro, J, Talbert R, Yee G, Matzke G, Wells B, Posey L. Pharmacotherapy – A pathophysiologic approach. McGraw-Hill Professional, New York, NY, 9th Edition, 2014.
 ISBN-13:978-0071800532; ISBN-10:0071800530 (Available in Access Pharmacy)
 Other available resources include: Multiple textbooks, Calculators,

Pharmacotherapy Casebook and Care Plans, Cases, Self-Assessments and Multimedia Videos

3. Readings from the primary literature will also be assigned where appropriate.

#### Weekly Schedule of Topics Week 1:

Module 1: Introduction to the Endocrine System Module 2: Introduction to Diabetes & General Management

Week 2:

Module 2: Introduction to Diabetes & General Management (continued) Exam 1

Week 3:

Module 3: Women's Health in Early Reproductive Life (Contraception)

Week 4: Module 4: Women's Health During Pregnancy & Lactation Exam 2 Module 5: Women's Health in Mid to Late Life (Begin)

Week 5:

Module 5: Women's Health in Mid to Late Life (Continued)

Week 6: Module 6: Men's Health

Week 7: Module 7: Sexually Transmitted Diseases Capstone (No new Content; Preparation for Exam) Final Exam

#### Grading Scheme Item Percent of Grade

Individual Cases - Quiz (N = 10) 10%Team Assessment (N = 10) 20%(Includes CATME Peer Assessment) Exam 1 20% Exam 2 20% Final Exam 30%

#### Additional Links and PoliciesClass Attendance Policy

Policy Across All 1PD-3PD courses:

Class attendance is mandatory for active learning sessions such as problem-solving sessions, case discussions, and laboratory sessions. Student attendance may be excused by the Teaching Partnership Leader in the following situations: documented illness, serious family emergencies, military obligation, severe weather conditions, religious holidays, and other reasons of serious nature. The Pharm.D. calendar allows for participation in special curricular requirements (e.g., professional meetings). Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) are excused. Conflict with work schedules is an unexcused absence.

Requests for excused absences MUST be made by an email to the Academic Coordinator and the course facilitator prior to the scheduled session or if it is an emergency situation, as soon as possible. The student is responsible for follow up and confirming whether the absence is excused or unexcused. The Teaching Partnership Leader, Academic Coordinator, and your campus specific director must be CCD in this communication. The following format is recommended: Failing to follow this policy will render the absence not excusable. A request for an "excused absence" does not guarantee acceptance. No precedence can be drawn from any courses in the College of Pharmacy or any other college within University of Florida. Makeup assignment(s) will be made for any excused absence(s) and will typically be submitted within one-week of the missed session(s). If the situation leads to missing multiple class sessions and makeup becomes difficult, the student and Teaching Partnership Leader will meet with the Associate Dean of Student Affairs to develop options such as a makeup/remediation plan or course withdrawal. The time period for this make up will be consistent with the UF attendance policies.

Class attendance requires full engagement of activities and discussions. The following are unacceptable during class: 1) read non-course related materials that are either in hard-copy or web-based, 2) study for other courses, 3) use a laptop for activities that are not course-related. Class participation will be reduced in such situations.

Please refer to the University Attendance Policy at

https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx Additional Policy Specific to This Course: None

Quiz/Exam Policy

During the Exam:

1. Students must arrive and be seated promptly to be eligible to take the exam. To maintain exam security, students who arrive late for the exam will not be allowed to start the exam if they are more than 30 minutes late or if another student has left the room after seeing the exam. Students who have valid reasons for arriving late at the exam may request a makeup exam as outlined below.

2. No talking or other disruptive behavior during the distribution or taking of the exam.

3 Calculators must meet the following requirements: Only nonprogrammable calculators are allowed during exams for this course.

4. If you encounter calculator problems (e.g., dead battery), contact the Proctor.

5. Nonessential materials are NOT allowed at the student's desk during examination periods. Please leave all nonessential materials outside of or in the front of the examination room.

6. Other exam rules may be instituted during the progression of the course.

7. Once the exam commences, students may not leave the room without first turning in the exam. Once the exam is turned in, the examination period for the student is considered complete and the student must leave the examination room. If there is urgent need to use the restroom, the Proctor will provide guidance.

Failure to follow exam rules may be considered as evidence of academic dishonesty.

Policies Related to iRAT/tRAT

1. Students must bring their laptop to class in order to participate in the iRAT and tRAT.

2. Students who are late for an iRAT may begin the iRAT when arriving, but will be required to close the iRAT at the end time established for the entire class by the instructor (i.e., students who are late will not have the entire time).

3. Students may not leave the room during the iRAT and tRAT. All students must remain quiet during the testing period.

4. One comprehensive final exam will be administered at the end of course. The

exam will be given simultaneously on all campuses and will include multiple choice, true/false and matching questions.

After the Exam

Policy across All 1PD-3PD courses:

1. Students are required to upload the encrypted exam file within 24 hours of completing the exam to the SofTest website.

a. If the encrypted file is not uploaded within 24 hours, the student's exam score will be reduced by 10%.

2. Graded exam appeals

a. Following release of the exam grades, the student has 3 business days to contact the Facilitator and Teaching Partner to clarify questions and appeal any possible grading errors. For courses that accept exam question appeals, see course specific information below.

Additional Policy Specific to This Course: None

Make-up Quiz/Exam Policy

Policy across All 1PD-3PD courses:

Makeup exams are given only under special circumstances. If the student is unable to take a scheduled examination, the Teaching Partnership Leader and Academic Coordinator must be notified before the examination or if it is an emergency situation, as soon as possible. In addition, a written letter of explanation requesting that the absence from the exam be excused, must be presented before the exam or if an emergency situations: documented illness, serious family emergencies, military obligation, severe weather conditions, religious holidays, participation in special curricular requirements, excused absences for court-imposed legal obligations, and other reasons of serious nature. All excused absences will be considered on an individual basis by the Teaching Partnership Leader. For unusual situations (e.g., wedding that was planned before admission), the faculty member will communicate with student affairs.

The questions on the makeup exam may be in the form of essay, short answer, or multiple-choice and will be the same level of difficulty as the exam administered during the scheduled time. With the exception of highly extenuating circumstances, failure to follow the prescribed procedures or failure to attend the announced examination will result in a grade of zero for that exam. No precedence can be drawn from any courses in the College of Pharmacy or any other college within University of Florida.

The instructor will arrange an alternate deadline for the exam consistent with the University examination policies.

The student may contact the instructor to obtain details about why points were deducted. The student has two weeks following the return of the Exam to clarify any questions and appeal any possible grading errors. Any appeals on the final examination must be made in writing and submitted to your facilitator. When an appeal is made to re-grade an Exam, the entire Exam will be reevaluated and scored.

Additional Policy Specific to this Course: None.

Policy on Old Quizzes and Assignments Old quizzes and assignments are not provided.

General College of Pharmacy Course Policies

The following policies apply to all courses in the College of Pharmacy and are available on the COP website:

University Grading Policies

Please visit the following URL to understand how the University uses the course grade to compute your overall GPA:

https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Concerns, Appeals, and Complaints

Students who have concerns about their evaluation of performance and/or studentfaculty relations should review the Student-Faculty Handbook for guidance. The Student-Faculty Handbook also outlines the chain of command for any appeals and/or complaints.

Academic Integrity Policy

Students are expected to act in accordance with the University of Florida policy on academic integrity

(http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php). This Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult the course's Teaching Partnership Leader.

Students are also expected to abide by the UF Honor Code.

The following is the UF Honor Pledge: We, the members of the University of Florida community, pledge

to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor

Code.

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

#### Psychomotor and Learning Expectations

Psychomotor expectations relate to the ability to meet the physical demands of the pharmacy curriculum. Physically impaired students and students with learning disabilities such as hearing impairment, visual impairment, dyslexia or other specific learning disabilities such as sensory deficit or sensory-motor coordination problems should cooperate with the faculty and staff in addressing these problems in order to meet academic standards.

#### How to Request Learning Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to both the instructor and the academic coordinator when requesting accommodations. Students at all campuses are also expected to provide a copy of the letter of accommodations to the Office of Student Affairs in Gainesville since some learning activities/exams/assessments require their assistance.

• Students with disabilities should follow this procedure as early as possible in the semester. It is strongly recommended that the procedure be done before the course starts so there is sufficient time to arrange accommodations and so that all learning activities/exams/assessments for the course are arranged.

Please note that you must arrange for accommodations in advance; grades cannot

be retroactively changed.

Faculty and Course Evaluations

Students are expected to provide feedback on the quality of instruction in every course based on 10 criteria. These evaluations are conducted online at https://evaluations.ufl.edu . Evaluations are typically open around mid-semester and need to be completed by the established deadline. Summary results of these assessments are available to students at https://evaluations.ufl.edu .

Computer and Other Technology Requirements

Students are required to meet the following computer and technology requirements: http://pharmacy.ufl.edu/education/student-affairs/admissions/student-computer-requirements/

ExamSoft® is used for administration of exams and students are required to follow the procedures that are established for exam administration. Students must bring a laptop to class to complete exams and this laptop must meet the computer and technology requirements established by the College. These technology requirements require a backup battery with at least 2 hours of life. Students must also complete mock exams prior to the actual exam to assure that all computer features are supported by ExamSoft®.

Expectations In Class and Other Learning Activities

Students are expected to:

- ? Be diligent and timely in studying the course material.
- ? Be on time for class sessions, quizzes, and exams.
- ? Be prepared for group discussions and conference calls.
- ? Do your own work.
- ? Actively collaborate with peers when assigned to groups.
- ? Inform the course coordinator about an absence from an exam or other assigned class activity at least 24 hours prior to the event.
- ? Dress appropriately for class sessions or clinically related activities.

? Turn off cell phones and other electronic communication devices during a class session or

phone conference.

- ? Be quiet during class sessions including peer presentations.
- ? Be focused and avoid distractive behaviors in class.
- ? Appropriately use the computer in class, i.e., do not be looking at unrelated information on the web site during class.
- ? Participate in class or group discussions.
- ? Raise one's hand to be recognized before making a comment during a class session.
- ? Be respectful to the teacher.
- ? Be respectful to fellow students in discussions.
- ? Be courteous, respectful, and civil when using discussion boards.

? Focus on the course learning activities; it is not respectful to study for other coursework during the class session.

? Address faculty with the appropriate title and name, i.e., Dr. (last name) or Professor (last name).

? Address concerns about performance or course material directly with the course coordinator, facilitator, or teaching assistant.

? Seek assistance with academic or personal difficulties as soon as possible.

Communications

Course-related Communications

Students with questions about course content should post questions on the discussion board. Questions that are personal in nature (illness, emergencies, excused absence

request, request for accommodations) should email the course teaching partnership leader and copy the Academic Coordinator and Distant Campus Dean. The student may email the course leader for any other needs that are personal in nature.

#### Faculty member Response Time:

1. The Course Coordinators/instructors will work to respond to postings within 24 hours of the posting between Monday and Friday 12N. Responses on weekends and holidays will be sporadic. (On weekends when assignments are due, students are advised to post questions before 12 Noon on Friday.)

#### Email Communications:

1. When communicating with faculty via email, the subject line needs to include the course number & title.

2. At the end of the email, in addition to listing your name, list your academic year and campus/site.

#### Discussion Board Policy

The purpose of the discussion board is to provide a venue for you to enhance your learning. This is accomplished by having a thread for each module where you can post questions to the

course coordinators. (A thread is a single link that is devoted to a topic.) The discussion board is also a place where your instructors may post virtual cases for you to work up.

Such interaction on the discussion boards with the instructors will allow you to clarify your questions and apply what you are learning in other parts of the course. The goal of these discussions is to help you learn.

Students Netiquette on the Discussion Board:

 Post your comment on the correct discussion thread. If you have a question about A1 (Unit A - Module 1), post it in the discussion thread for A1 and not the B1 thread.
 The discussion board is not a place to complain. Complaints should instead be directed directly to the instructor via email. This allows the primary course coordinator to quickly address your concern without causing distraction to other students who have limited time and want to focus on learning.

3. Use "netiquette." If you have never learned "netiquette" - please visit the following URL: http://www.albion.com/netiquette/corerules.html If you follow the rules of netiquette described in this URL, you will avoid posting an embarrassing or inappropriate comment.

4. The discussion board has been designed to allow you a place to ask further questions on the material to clarify any confusion, gain a deeper understanding of the material, or ask general course questions. A question you might see on a discussion board is "What do I need to study for the exam?" Please reflect on how this question can be perceived by your lecturing faculty as well as your fellow classmates. Rewording the question to address a specific topic would be more appropriate. For example, "Dr. XX, you listed numerous side effects for drug XX on slide XX. Of those, what are the most relevant that we could expect to occur and monitor for in clinical practice." The type of material that is covered in these classes is material that is important for patient care. All of this material is important. There are variations in courses, but please make use of your syllabus since there might be guidance on how to prepare for various exams in your classes.

5. In most situations, lectures are released as planned by the course coordinators. Clarifying at the beginning of a semester on the planned release date/time, if not posted in the syllabus, is appropriate. Continual posts on the discussion board on weekly basis can become overwhelming for the course coordinator as well as your fellow students. Question/Answer sessions in live class sessions:

Time is usually reserved at the end of the class for questions regarding the material to clear up any confusion or expand on material covered in the particular section. This is a valuable time for all students and since time is limited, the questions should focus on the

topics at hand. Questions such as, "What material will be covered on an upcoming exam?" or, "Do we need to know dosing for the exam?" are inappropriate during this time period. In our profession, all material is important. However, if this question does need to be asked, please consider using the discussion board to clarify any specific exam questions.

#### Student Complaint Process

Concerns about the course (e.g., course requirements, quizzes, exams) should first be discussed with the appropriate course instructor and the Teaching Partnership Leader. If a satisfactory resolution is not achieved, the student may appeal to the Associate Dean for Curricular Affairs and Accreditation who will also engage other individuals depending on the request (e.g., campus dean, department chair, Associate Dean for Student Affairs). If the student finds the decision unsatisfactory, the student may appeal to the Dean of the College of Pharmacy. If this decision is unsatisfactory, the student may appeal to the Ombuds office (

https://www.dso.ufl.edu/documents/UF\_Complaints\_policy.pdf ).

#### Religious Holidays

Please see the University policy on attendance and religious holidays: http://www.registrar.ufl.edu/catalog/policies/regulationattendance.html#religious.

#### Counseling and Wellness Center

Students who are experiencing issues and events that could adversely affect academic performance and personal health should be encouraged to meet with the course coordinator or facilitator or appropriate administrator for guidance. Students in the Gainesville area may contact the UF Counseling and Wellness Center for Gainesville students (352-392-1575; http://www.counseling.ufl.edu). Students outside the Gainesville area may obtain similar contact information from the campus/program administrator.

#### Emergencies Call the University Police Department for emergencies: 392-1111 or 9-1-1

#### Student Crisis

Your well-being is important to the University of Flo¬¬rida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Students who are experiencing issues and events are also encouraged to contact their local

crisis center. For Alachua County the Crisis Center number is 352-264-6789; for Jacksonville and

Duval County 904-632-0600 and toll free for Northeast Florida at 1-800-346-6185; and for Orlando

407-425-2624.

The following national call numbers are also available for students who reside outside of the main COP campuses: a) 1-800-273-8255, and b) 1-800-784-2433.

#### How to Access Services for Student Success

Students who need guidance for course success or who are having academic difficulty should contact their advisor/facilitator or Campus Director/Senior Associate Dean for

assistance.

Faculty Lectures/Presentations Download Policy

Photography, Audio-visual recording, and transmission/distribution of classroom lectures and discussions is prohibited unless there is expressed written permission. Recorded lectures and class sessions are authorized solely for the purpose of individual or group study with other UF College of Pharmacy students enrolled in the same class. Such recordings may not be reproduced, shared, or uploaded to publicly accessible web environments. Students who do not adhere to this policy will be considered to be breeching COP copyrights and/or FERPA law.

**Instructor(s)** Randy Hatton, BPharm, PharmD, FCCP, BCPS Maureen Keller-Wood, Ph.D. Robert Huigens, Ph.D. Karen Whalen, Pharm.D.

# PHA 5787C Patient Care 5: Endocrinology and Women's & Men's Health

# Spring 2017 – Block 11 6 Credit Hours

#### **Course Purpose:**

Fifth of an eight course sequence that prepares the student to provide patient-centered care by serving as a collaborative interprofessional team-member who is an authority on pharmacotherapy. The course continues to prepare the student to be a collaborative team member since learning involves teamwork. This course focuses on providing patient-centered care to patients who have endocrine disorders or gender specific–health related needs. Learners will develop, integrate, and apply knowledge from the foundational disciplines (i.e., *pharmaceutical, social/behavioral/administrative*, and *clinical sciences*) and apply the Pharmacists' Patient Care Process in solving case-based scenarios of these patients.

#### **Course Faculty and Office Hours**

(See Appendix A for Who to Contact)

#### Academic Director:

Randy Hatton, BPharm, PharmD, FCCP, BCPS Email: rhatton@cop.ufl.edu Office: HPNP 2331 Phone: 352-294-5785 Office Hours: by email and appointment

#### **Core Teaching Partners:**

Name	Email address:	<u>Phone:</u>
Maureen Keller-Wood, Ph.D.	kellerwd@cop.ufl.edu	352-273-7687
Robert Huigens, Ph.D.	<u>rwhuigens@ufl.edu</u>	352-273-7718
Karen Whalen, Pharm.D.	whalen@cop.ufl.edu	352-273-9497

Appendix B contains the contact information for all other teaching partners

#### Academic Coordinator

Name - TBDEmail:Office:Phone:Office Hours: by email and appointment

#### Instructional Designer:

Justin DeLeo, M.Ed.

# This Course Will Prepare You to Perform the Following Activities Which the Public Entrusts a Pharmacist to Perform:

- 1. **EPA A1**. Collect subjective and objective data by performing a patient assessment and gathering data from chart/electronic records, pharmacist records, other health professionals and patient/family interviews.
- 2. **EPA A2.** Interpret patient data, and identify medication-related problems and develop a prioritized problem list.
- 3. **EPA A3.** Formulate evidence-based care plans in collaboration with an interprofessional team. Utilize clinical guidelines in the development of a pharmacotherapy plan.
- 4. EPA A4. Document a patient/clinical encounter electronically/in writing.
- 5. **EPA A5.** Provide counseling and medications and health wellness (including referral when there are social determinants of health and disparities).
- 6. **EPA A6.** Assess and counsel a patient about health-wellness.
- 7. **EPA A7.** Present a succinct oral patient summary and plan to a health care provider. Defend a therapeutic plan verbally or in writing using references, guidelines, or primary literature.
- 8. EPA A8. Give and receive a patient handover to transition care.
- 9. EPA A9. Collaborate as a member of an interprofessional team and provide patient-centered care.

# **Course-Level Objectives**

- 1. Upon completion of this course, the student will be able to provide patient-centered care for patients with one or more of the following disorders or pharmacotherapy needs:
  - A. General management of diabetes
  - B. Management of diabetes complications
  - C. Diabetes health and wellness
  - D. Thyroid disorders
  - E. Women's health in early reproductive life (e.g., contraception)
  - F. Women's health during Pregnancy and Lactation
  - G. Women's health in mid to late life (e.g., hormone replacement, osteoporosis)
  - H. Breast cancer
  - I. Men's health (e.g., benign prostatic hypertrophy, erectile dysfunction)
  - J. Prostate cancer
  - K. Urinary incontinence
  - L. Sexually transmitted diseases in women and men

# 2. Specifically, given a case of a patient with one or more of the above disorders/pharmacotherapy needs:

- a. Integrate knowledge and use clinical reasoning skills in accomplishing the following steps when managing a patient with the disease state:
  - i. **Collect:** Gather subjective and objective information about the patient in order to understand the relevant medical and medication history and clinical status of the patient.

- 1. Subjective and objective information is collected through patient interview, medical record review, pharmacy profile review, and communication with other members of the health care team.
- A holistic view is initiated during collection in order to consider physiological, psychological, and sociological variables of the patient and this view is maintained throughout the patient care process.
- ii. **Assess:** Assess the information collected and analyze the clinical effects of the patient's therapy in the context of the patient's overall health goals in order to identify and prioritize problems and achieve optimal care.
  - 1. Understand, explain, and assess a patient's health status.
  - 2. Interpret physical and patient assessment findings
  - 3. Assess each medication for appropriateness, effectiveness, safety, and patient adherence.
  - 4. Assess health and functional status, risk factors, health data, cultural factors, health literacy, and access to medications or other aspects of care.
  - 5. Assess immunization status and the need for preventive care and other health care services.
  - Integrate knowledge, clinical experience, and patient data to formulate and test hypotheses about the etiology of medicationrelated problems. (Generate hypotheses)
  - 7. Establish potential and actual medication-related problems.
- iii. **Plan:** Develop an individualized patient-centered care plan in collaboration with other health care professionals and the patient/caregiver.
  - 1. **Therapeutic Goals:** Develop specific and general therapeutic goals for the patient. These goals achieve clinical outcomes in the context of the patient's overall health care goals and access to care.
  - Therapeutic Plan: Integrate knowledge, evidence-based literature/information, clinical experience, patient data, patient goals and desires, and the prescriber's judgment when developing the best pharmacotherapeutic plan for the patient.
    - a. **Therapeutic Alternatives:** Evaluate pharmacotherapeutic alternatives for the patient before establishing the therapeutic plan.
    - b. **Develop the Therapeutic Plan:** This plan addresses medication-related problems and optimizes medication therapy. Considerations for the plan include:
      - i. Goals and desires of the patient
      - Application of established practice guidelines, evidence-based medicine, and population-based treatment plans in developing the plan.

- Accurate and patient-specific dosing (including dosage adjustment for renal/hepatic dysfunction, starting dose, maximum doses, timing of doses and pharmacokinetic design for narrow therapeutic index drugs,).
- iv. Parameters for monitoring response and frequency of monitoring
- v. Parameters for monitoring adverse effect and frequency of monitoring
- vi. Plan for patient counseling/education
- vii. Supports care continuity, including follow-up and transitions of care as appropriate.
- c. **Patient/Caregiver engagement:** The patient/caregiver are involved through education, empowerment, and self-management.
- iv. **Implement:** Implement the care plan in collaboration with other health care professionals and the patient/caregiver. When implementing the care plan, the following are accomplished:
  - 1. Medication and health-related problems are addressed.
  - 2. Preventative care including vaccine administration are provided.
  - 3. Medication therapy is initiated, modified, discontinued, or administered as authorized.
  - 4. Education and self-management training is provided to the patient/caregiver.
  - 5. Refers and provides transitions of care as needed.
  - 6. Schedules follow-up care as needed to achieve goals of therapy.
- v. Follow-up (Monitor and Evaluate): Monitor and evaluate the effectiveness of the care plan and modify the plan in collaboration with other health care professionals and the patient/care giver. The following are continually monitored and evaluated:
  - 1. Medication appropriateness, effectiveness, and safety and patient adherence through available data, biometric test results and patient feedback.
  - 2. Clinical endpoints that contribute to the patient's overall health.
  - 3. Outcomes of care, including progress toward or achievement of goals.
- vi. **Patient-Centered Care:** Foster a patient-centered care approach by accomplishing the following:
  - Communicate: Succinctly communicate with other health care team members and the patient/caregiver throughout the patient care process.

- 2. **Collaborate:** Discuss with team members the specific therapeutic approaches for individual patients based on scientifically and logically validated assessment of the patient's health care needs and an ethical consideration of the patient's health care goals and desires.
- 3. **Document:** Prepare a written communication that is well-organized, logical, complete, appropriate, and evidence-based.
- b. Apply and integrate foundational knowledge (i.e., pharmaceutical, social/behavioral/administrative, and clinical sciences) throughout the patient care process. This will require the ability to:
  - i. Describe the pathophysiology of disease state(s) and identify appropriate drug targets (cellular/molecular), biochemical processes, and organ changes for therapeutic intervention. Specifically, for a given disease state:
    - Describe the basic pathophysiology of the disease including an explanation of the abnormal processes and the resulting disease signs and symptoms.
    - 2. Outline risk factors and/or diagnostic indicators (e.g., lab values, diagnostic test results).
    - 3. Determine classes of drugs that will treat the disease state and ameliorate the underlying pathophysiology and signs/symptoms.
  - Apply knowledge about structure-activity relationships and cellular/molecular mechanisms of action to identify drug classes that are appropriate for treatment of the disease state. Specifically, for each drug class:
    - 1. Identify the relevant therapeutic targets and explain the mechanism(s) of action.
  - iii. Describe major pathways for metabolism and the pharmacological/therapeutic consequences of metabolism.
  - iv. Compare and contrast the therapeutic and adverse effects of drug classes that are appropriate for treating the disease state.
    - 1. Identify the most common/serious drug interactions and adverse effects.
  - v. Compare and contrast the therapeutic and adverse effects of drugs within a given class and then recommend the best drug for the patient.
  - vi. Identify important precautions and contraindications.
  - vii. Recommend any unique storage, handling, or use requirements to ensure patient safety and clinical efficacy.
  - viii. Discuss significant pharmacokinetic and pharmacodynamic considerations.
  - ix. Integrate the following transcending concepts when assessing a patient and developing a care plan:
    - 1. Apply concepts about health information and informatics in the inpatient setting (Informatics)

- Evaluate cohort trials and apply to a patient's needs (Evidencebased practice)
- 3. Use clinical reasoning and clinical judgment (Problem-solving)
- 4. Address health and wellness in the context of the management of diabetes
- 5. Consider the role of drug delivery systems in the context of contraceptives
- 6. Apply dosage individualization practices in pregnant women.
- 7. Address cultural competency for lesbian, gay, bisexual, and transgender issues.
- 8. Address issues related to law and ethics in the context of birth control for teenagers.
- 9. Apply oncology pharmacogenomics (Personalized Medicine)
- 10. Assess the role of self-care for health issues in women and men
- 11. Use SBAR when communicating with another health professional (Interprofessional collaboration)
- 12. Consider medication safety for women's and men's health issues
- 13. Apply population-based care for women's and men's health issues
- 14. Apply pharmacoeconomics erectile dysfunction agents
- 3. Demonstrate the ability to be an effective team member by collaborating in preparing for class sessions and in solving case studies.

# Pre-Requisite or Co-Requisite Knowledge and Skills

- 1. Pre-requisite: Completion of all Year 1 Pharm.D. program coursework including milestones
- 2. Pre-requisite: PHA 5781 Patient Care 1\*
- 3. Pre-requisite: PHA 5755 Principles of Medical Microbiology, Immunology, and Virology
- 4. Pre-requisite: PHA 5782 Patient Care 2: Infectious Diseases and Oncology\*
- 5. Pre-requisite: PHA 5783C Patient Care 3: Cardiovascular and Pulmonary Diseases\*
- 6. Pre-requisite: PHA 5784C Patient Care 4: Gastrointestinal and Renal Diseases\*
- 6. Co-Requisite: PHA 5163L Professional Practice Skills Lab IV

\*These pre-requisites may be waived with the consent of the Academic Performance Committee

# **Course Outline**

Case studies will involve application of what has been learned to date during the Pharm.D. curriculum.

The case studies and exam cover the related content described in course objective 1. They also cover course objectives 2 and 3.

**ALERT about Schedule:** Please routinely check your campus calendar and the Canvas course site for any messages about changes in the schedule including meeting dates/times, deadlines, and room changes

\*Case Studies and Capstone Sessions are active learning sessions that allow for application of other coursework. Since part of the time involves interaction with team members rather than faculty members, a 2.0 hr contact time is equivalent to 1.0 hr of instructor contact time.

\*\*Transcending concepts provide content that will be applied during the Case Studies.

Date	Module	Unit Topic	Contact	Faculty <sup>b</sup>
Recommended	and Unit	Learning Resources will include	Hours	,
Dates for Viewing		Lecture Videos and readings	[hr] <sup>a</sup>	
Videos		Lecture videos and readings.	[,,,]	
	Module 1:	Introduction to the Endocrine	8	
	System			
	(Approxim	ately 8 hours of direct instruction & 16		
	hrs of out o	f class; total = 24 hrs)		
	Pharmacol	ogy: Maureen Keller-Wood		
	Medicinal	Chemistry: TBD		
	PTR:	Shannon Miller		
Mar 13 (M)	1A	Video-lecture: Pathophysiology of	1	Shannon Miller
		the endocrine system: Thyroid		
Mar 13 (M)	1B	Video-lecture: Pathophysiology of	1	Maureen Keller-
		the endocrine system: Adrenal		Wood
Mar 13 (M)	1C	Video-lecture: Pharmacology of	1	Maureen Keller-
		steroids		Wood
Mar 13 (M)	1D	Video-lecture: Pathophysiology of	2	Shannon Miller
		the endocrine system: Calcium and		
		parathyroid disorders		
Mar 13 (M)	1E	Video-lecture: Management of	1	Shannon Miller
		Thyroid Disorders		
Mar 15 (W)		Case Studies: Endocrine system &	2.0 hr (4.0	
		Thyroid Disorders	hr workup)	
	Module 2:	Introduction to Diabetes and	19.5	
	General M	lanagement		
	(Approxim	ately 19.5 hours of direct instruction &		
	39 hrs of ou	ıt of class; total = 58.5 hrs)		
	Pharmacol	ogy: Jim Taylor		
	Medicinal	Chemistry: Yousong Ding		
	PTR:	Jim Taylor &		
		Karen Sando		
	2.		4 5	
iviar 15 (W)	ZA	Video-lecture: Pathophysiology of	1.5	Jim Taylor
	1	[ Diabetes (Type I allo Type Z)	1	

Mar 16 (Th)				
	2B	Video-lecture: Medicinal Chemistry: hypoglycemic & insulin	2	Yousong Ding
Mar 16 (Th)	2C	Video-lecture: Pharmacology: hypoglycemic & insulin	2	Jim Taylor (Oral) Karen Sando (Insulin)
Mar 17 (Fr)		Case Studies: Pathophysiology & Drug Management of Diabetes	2.0 hr (4.0 hr workup)	
Mar 17 (Fri)	2D	Video-lecture: General Management of Diabetes	3	Shannon Miller
Mar 17 (Fri)	2E	<b>Video-lecture:</b> Transcending Concept – Health and Wellness - Diabetes	1	Michelle Farland
Mar 20 (M)		Case Studies: General Management of Diabetes	2.0 hr (4.0 hr workup)	
Mar 22 (W)	2F	Video-lecture: Chronic Diabetes Management and Complications (Hyperosmolar syndrome, DKA, CV risk)	3	?
Mar 22 (W)	2G	Video-lecture: Diabetes and behavioral adherence	1	?
Mar 23 (Th)		Case Studies: Chronic Diabetes Management	2.0 hr (4.0 hr workup)	
			~	
Mar 24 (F)		Exam 1	2	
Mar 24 (F)	Module 3: Reproduct (Approxim 29 hrs of ou Pharmacol Medicinal PTR:	Exam 1         Women's Health in Early         ive Life (Contraception)         ately 14.5 hours of direct instruction &         at of class; total = 43.5 hrs)         ogy:       Maureen Keller-Wood         Chemistry:       Margaret James         Karen Whalen &         Priti Patel	14.5	
Mar 24 (F)	Module 3: Reproduct (Approxim 29 hrs of ou Pharmacol Medicinal PTR: 3A	Exam 1         Women's Health in Early         ive Life (Contraception)         aately 14.5 hours of direct instruction &         at of class; total = 43.5 hrs)         ogy:       Maureen Keller-Wood         Chemistry:       Margaret James         Karen Whalen &         Priti Patel         Video-lecture:       Pathophysiology of         the Endocrine System:       Female         reproduction; pregnancy and       reproductive disorders	14.5	Karen Whalen
Mar 24 (F) Mar 27 (M) Mar 27 (M)	Module 3: Reproduct (Approxim 29 hrs of ou Pharmacol Medicinal PTR: 3A 3B	Exam 1         Women's Health in Early         ive Life (Contraception)         aately 14.5 hours of direct instruction &         at of class; total = 43.5 hrs)         ogy:       Maureen Keller-Wood         Chemistry:       Margaret James         Karen Whalen &         Priti Patel         Video-lecture:         Pathophysiology of         the Endocrine System:         reproduction; pregnancy and         reproductive disorders         Video-lecture:         Pharmacology of:         estrogens, infertility agents,         contraceptives, androgen,         progestins	2 14.5 1 2	Karen Whalen Maureen Keller- Wood & Karen Whalen

Mar 27 (M)	3D	Video-lecture: Transcending Concept: Drug Delivery Systems - Contraceptives	1	Cary Mobley
Mar 29 (W)		Case Studies: Endocrine therapy	2.0 hr (4.0 hr workup)	
Mar 29 (W)	3E	Video-lecture: Contraception	2	Karen Whalen
Mar 30 (Th)	3F	Video-lecture: Menstruation related disorders	1	Karen Whalen
Mar 30 (Th)	3G	Video-lecture: Transcending Concept: Professionalism including Ethics & Law – Condoms and birth control for teenagers	0.5	Karen Whalen
Mar 30 (Th)	3Н	Video-lecture: Transcending Concept: Evidence-based Practice: Review and appraisal of cohort studies	1	Priti Patel
Mar 30 (Th)	31	Video-lecture: Transcending Concept: Self-care (vaginal and vulvovaginal infections (candida, etc); pregnancy testing)	1	Karen Whalen
Mar 31 (F)		Case Studies – Early Reproductive	2.0 hr (4.0	
		Life	hr workup)	
Mor 21 /F)	Pharmacol Medicinal PTR:	aately 7.5 hours of direct instruction & at of class; total = 22.5 hrs) ogy: Priti Patel Chemistry: TBD Erin St Onge & Karen Whalen	7.5	Driti Datal
Mar 31 (F)	4A	Video-lecture: Pregnancy and Lactation	2	Priti Patel
Apr 3 (M)	4B	Video-lecture: Drug Information Resources for Pregnancy and Lactation	1	Priti Patel
Apr 3 (M)	4C	Video-lecture: OTC Use in Pregnancy	1	Erin St Onge
Apr 3 (M)	4D	Video-lecture: Transcending Concept: Special Populations – Drug dosing in pregnancy	1	Karen Whalen
Apr 3 (M)	4E	Video-lecture: Transcending Concept: Interprofessional & Medication Safety– Communicate with other health providers when an error occurs (Case from Karen Whalen)	0.5	Karen Whalen

	r			
Apr 5 (W)		Case Studies: Pregnancy and	2.0 hr (4.0	
		Lactation	hr workup)	
Apr 6 (Th)		Exam 2	2	
	Module 5: (Approxim 26 hrs of ou Pharmacol Medicinal PTR:	Women's Health in Mid to Late Lifeately 12 hours of direct instruction &at of class; total = 39 hrs)ogy:Maureen Keller-WoodChemistry:TBDErin St OngeKatie Vogel AndersonMegan Murphy Menezes	12	
Apr 7 (Fr)	5A	Video-lecture: Hormone therapy in women	1	Erin St Onge
Apr 7 (Fr)	5B	Video-lecture: Urinary incontinence	1	Katie Vogel Anderson
Apr 7 (Fr)	5C	Video-lecture: Osteoporosis	2	Megan Murphy Menezes
Apr 7 (Fr)	5D	Video-lecture: Transcending Concept: Population-based care including pharmacoeconomics – decision analysis - bisphosphonates	1	Almut Winterstein
Apr 10 (M)		Case Studies: Mid to Late Life	2.0 hr (4.0 hr workup)	
Apr 10 (M)	5E	Video-lecture: Breast Cancer	2	TBD
Apr 10 (M)	5F	Video-lecture: Transcending Concept: Personalized Medicine – Breast Cancer	1	Caitrin McDonough Kristin Weitzel
Apr 12 (W)		Case Studies: Breast Cancer	2.0 hr (4.0	
			hr workup)	
	Module 6: (Approxim 23 hrs of ou Pharmacol Medicinal PTR:	Men's Health hately 11.5 hours of direct instruction & ht of class; total = 34.5 hrs) ogy: Maureen Keller-Wood Chemistry: TBD Katie Vogel Anderson	11.5	
Apr 12 (W)	6A	Video-lecture: Pathophysiology of the Endocrine System: Male	1	Katie Vogel- Anderson
Apr 13 (Th)	6B	Video-lecture: Testosterone replacements	1	Katie Vogel- Anderson
Apr 13 (Th)	6C	Video-lecture: Erectile dysfunction	1	Katie Vogel- Anderson

Apr 13 (Th)	6D	Video-lecture: Benign prostatic	1	Katie Vogel-
		hyperplasia & Incontinence		Anderson
Apr 13 (Th)	6E	Video-lecture: Transcending	1	TBD
		Concept: self-care - Men's health		
		issues (muscle-building supplements		
		and condoms)		
	6F	Video-lecture: Transcending	Embedded	Almut Winterstein
		Concept: Population-based care	in Case	
		including pharmacoeconomics –		
		decision analysis – erectile		
		dysfunction		
Apr 14 (Fr)		Case Studies: Men's health	2.0 hr (4.0	
			hr workup)	
Apr 14 (Fr)	6G	Video-lecture: Management of	2	TBD
		Prostate Cancer		
Apr 14 (Fr)	6H	Video-lecture: Transcending	1.5	TBD
		Concept: Social – Cultural		
		competency –Lesbian, Gay, Bisexual		
		and Transgender		
Apr 17 (M)	61	Video-lecture: Transcending	1	Denise Klinker
		Concept : Health information and		
		informatics (HIT in Inpatient		
		Settings)		
	Module 7:	Sexually Transmitted Diseases	2.5 hrs	
	(Approxim	nately 2.5 hours of direct instruction)		
	Pharmaco	logy: Maureen Keller-Wood?		
	Medicinal	Chemistry: Robert Huigens?		
		Kon Klinkor?		
	T TIX.	Ken Kinker:		
Apr 17 (M)	7A	Video-lecture: Managing Sexually	1	TBD
1 ( )		Transmitted Diseases		
Apr 17 (M)	7B	Video-lecture: Managing Sexually	1	TBD
1 ( )		Transmitted Diseases		
Apr 17 (M)	7C	Video-lecture: Transcending	0.5	TBD
	_	Concept: Self-care—STD Prevention		
Apr 19 (W)	Module 8:	Capstone	8.0 hr	
Apr 20 (Th)	(Approxim	nately 8 hrs of direct instruction	(16.0 hr	All Faculty
, , , ,	within 16	hrs of case studies/patient work up	workup)	,
	activities;	across 2 days)		
Apr 21 (Fr)		Comprehensive Final Exam	2	
		Total Instructor Contact Hours	90.5 +	
			2 Final	
			Exams	
	1		1	1

This course is estimated to require 270 hours over 6 weeks (i.e., 45 hours per week for a 6-credit-hour course) = 90 hours (i.e., 15 hours per week) of "direct faculty instruction" (videos and in-class time) and a minimum of 180

hours (i.e., 30 hours per week) of "out-of-class" (readings, studying, and preparation for cases) work. Note: As noted by UF policy, for each hour of "Instructor Contact," students are expected to spend a minimum of 2 hours of additional time completing learning activities. Thus, if a week has 15 hours of Instructor Contact, the student should plan on a minimum of 30 additional hours of study. Therefore, they typical student will devote 45 hours of effort to the course that week. The course hours estimated in this syllabus are for a <u>"typical" student</u> – some students will find that they will devote less time, while others will need to devote more time.

# Textbooks

## The following textbooks are required:

- Foye WO, Lemke T, Williams DA. Foye's Principles of Medicinal Chemistry, Wolters Kluwer Health/Lippincott Williams & Wilkins, Philadelphia, PA, 7<sup>th</sup> Edition, 2013. ISBN-13:978-1609133450; ISBN-10:1609133455
- 2. AccessPharmacy, McGraw-Hill Professional, New York, NY (This resource is available through the UF Health Science Center Library.) The following resources will be frequently used:
  - Brunton L. Goodman and Gilman's The Pharmacological Basis of Therapeutics, McGraw-Hill Professional, New York, NY, 12<sup>th</sup> Edition, 2011. ISBN-13:978-0071624428; ISBN-10:0071624422 (Available in Access Pharmacy)
  - Dipiro, J, Talbert R, Yee G, Matzke G, Wells B, Posey L. Pharmacotherapy A pathophysiologic approach. McGraw-Hill Professional, New York, NY, 9th Edition, 2014. ISBN-13:978-0071800532; ISBN-10:0071800530 (Available in Access Pharmacy)
  - Other available resources include: Multiple textbooks, Calculators, Pharmacotherapy Casebook and Care Plans, Cases, Self-Assessments and Multimedia Videos
- 3. Readings from the primary literature will also be assigned where appropriate.

# **Materials and Supplies Fees:**

None

# **Student Evaluation & Grading**

#### Evaluation Methods and how grades are determined

The Canvas<sup>©</sup> gradebook will be set up using the percentages below to compute the grade. The Case Studies Sessions and the Capstone will involve students working in assigned teams and collaboratively preparing for the class sessions and solving the case studies.

Assessment Item	Grade
	Percentage
Individual Quizzes	10
Each Case Studies Session includes an individual quiz (N = 10)	
Team Assessment*	20*
Each Case Studies Session includes a group quiz (N = 10)	

Exam 1	20
Exam 2	20
Comprehensive Final Exam	30
Total	100%

\*Please note that group quiz points earned in this course will be reduced with an up to a <u>5-point</u> <u>deduction</u> should your contribution to your team's effectiveness, assessed using CATME (Appendix D [peer assessment]), finds that your performance requires improvement. For example, a student earning 13 of 15 possible points for a tRAT category could see earned points drop to 8 out of the 15 possible points.

# Grading Scale (The following grade scale is used across all courses)

> 92.5%	Α
89.5-92.4%	A-
86.5-89.4%	B+
82.5-86.4%	В
79.5-82.4%	B-
76.5-79.4%	C+
72.5-76.4%	С
69.5-72.4%	C-
66.5-69.4%	D+
62.5-66.4%	D
59.5-62.4%	D-
< 59.4%	Е

**Rounding of grades:** Final course grade will only be rounded up if the decimal is 0.5 or higher. The above scale depicts this policy.

# **Educational Technology Use**

The following technology below will be used during the course and the student must have the appropriate technology and software. **Appendix A** outlines who to contact if you have questions about technology.

- 1. ExamSoft®
- 2. Canvas<sup>®</sup> Learning Management System

# **Class Attendance Policy**

#### Policy Across All 1PD-3PD courses:

Class attendance is mandatory for active learning sessions such as problem-solving sessions, case discussions, and laboratory sessions. Student attendance may be excused by the Teaching Partnership Leader in the following situations: documented illness, serious family emergencies, military obligation, severe weather conditions, religious holidays, and other reasons of serious nature. The Pharm.D. calendar allows for participation in special curricular requirements (e.g., professional meetings). Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) are excused. Conflict with work schedules is an unexcused absence.

Requests for excused absences MUST be made by an email to the Academic Coordinator and the course facilitator prior to the scheduled session or if it is an emergency situation, as soon as possible. The student is responsible for follow up and confirming whether the absence is excused or unexcused. The Teaching Partnership Leader, Academic Coordinator, and your campus specific director must be CCD in this communication. The following format is recommended:

To: Academic Coordinator and Campus Course Facilitator CC: Teaching Partnership Leader and your specific campus director Subject: PHA XXXX – Excused Absence request Dear Prof. \_\_\_\_\_\_\_\_\_, Professionally and politely request an excused absence. Explain the nature of conflict and rationale for receiving an excused absence. Thank the faculty member for their consideration of your special request. Salutation, Type in your full name and last 4 digits of UF-ID #, and Campus Name

Failing to follow this policy will render the absence not excusable. A request for an "excused absence" does not guarantee acceptance. No precedence can be drawn from any courses in the College of Pharmacy or any other college within University of Florida.

Makeup assignment(s) will be made for any excused absence(s) and will typically be submitted <u>within</u> <u>one-week of the missed session(s)</u>. If the situation leads to missing multiple class sessions and makeup becomes difficult, the student and Teaching Partnership Leader will meet with the Associate Dean of Student Affairs to develop options such as a makeup/remediation plan or course withdrawal. The time period for this make up will be consistent with the UF attendance policies.

Class attendance requires full engagement of activities and discussions. The following are unacceptable during class: 1) read non-course related materials that are either in hard-copy or web-based, 2) study for other courses, 3) use a laptop for activities that are not course-related. Class participation will be reduced in such situations.

Please refer to the University Attendance Policy at <a href="https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx">https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx</a>

Additional Policy Specific to This Course: None

# **Quiz/Exam Policy**

#### During the Exam:

- <u>Students must arrive and be seated promptly</u> to be eligible to take the exam. <u>To maintain exam</u> security, students who arrive late for the exam will not be allowed to start the exam if they are more than 30 minutes late or if another student has left the room after seeing the exam. Students who have valid reasons for arriving late at the exam may request a makeup exam as outlined below.
- 2. No talking or other disruptive behavior during the distribution or taking of the exam.
- 3 Calculators must meet the following requirements: Only nonprogrammable calculators are allowed during exams for this course.
- 4. If you encounter calculator problems (e.g., dead battery), contact the Proctor.
- 5. Nonessential materials are NOT allowed at the student's desk during examination periods. Please leave all nonessential materials outside of or in the front of the examination room.
- 6. Other exam rules may be instituted during the progression of the course.
- 7. <u>Once the exam commences, students may not leave the room without first turning in the exam</u>. Once the exam is turned in, the examination period for the student is <u>considered complete</u> and the student must leave the examination room. If there is urgent need to use the restroom, the Proctor will provide guidance.

Failure to follow exam rules may be considered as evidence of academic dishonesty.

# Policies Related to iRAT/tRAT

- 1. Students must bring their laptop to class in order to participate in the iRAT and tRAT.
- 2. Students who are late for an iRAT may begin the iRAT when arriving, but will be required to close the iRAT at the end time established for the entire class by the instructor (i.e., students who are late will not have the entire time).
- 3. Students may not leave the room during the iRAT and tRAT. All students must remain quiet during the testing period.
- 4. One comprehensive final exam will be administered at the end of course. The exam will be given simultaneously on all campuses and will include multiple choice, true/false and matching questions.

# After the Exam

# Policy across All 1PD-3PD courses:

- 1. Students are required to upload the encrypted exam file within 24 hours of completing the exam to the SofTest website.
  - a. If the encrypted file is not uploaded within 24 hours, the student's exam score will be reduced by 10%.
- 2. Graded exam appeals
  - a. Following release of the exam grades, the student has 3 business days to contact the Facilitator and Teaching Partner to clarify questions and appeal any possible grading

errors. For courses that accept exam question appeals, see course specific information below.

Additional Policy Specific to This Course: None

# Make-up Quiz/Exam Policy

#### Policy across All 1PD-3PD courses:

Makeup exams are given only under special circumstances. If the student is unable to take a scheduled examination, the Teaching Partnership Leader and Academic Coordinator must be notified before the examination or if it is an emergency situation, as soon as possible. In addition, a written letter of explanation requesting that the absence from the exam be excused, must be presented before the exam or if an emergency situation as soon as possible. An excused absence is allowable in the following situations: documented illness, serious family emergencies, military obligation, severe weather conditions, religious holidays, participation in special curricular requirements, excused absences for court-imposed legal obligations, and other reasons of serious nature. All excused absences will be considered on an individual basis by the Teaching Partnership Leader. For unusual situations (e.g., wedding that was planned before admission), the faculty member will communicate with student affairs.

The questions on the makeup exam may be in the form of essay, short answer, or multiple-choice and will be the same level of difficulty as the exam administered during the scheduled time. With the exception of highly extenuating circumstances, failure to follow the prescribed procedures or failure to attend the announced examination will result in a grade of zero for that exam. No precedence can be drawn from any courses in the College of Pharmacy or any other college within University of Florida.

The instructor will arrange an alternate deadline for the exam consistent with the University examination policies.

The student may contact the instructor to obtain details about why points were deducted. The student has two weeks following the return of the Exam to clarify any questions and appeal any possible grading errors. Any appeals on the final examination must be made in writing and submitted to your facilitator. When an appeal is made to re-grade an Exam, the entire Exam will be reevaluated and scored.

Additional Policy Specific to this Course: None.

# **Policy on Old Quizzes and Assignments**

Old quizzes and assignments are not provided.

## **General College of Pharmacy Course Policies**

The following policies apply to all courses in the College of Pharmacy and are available on the COP website:

#### University Grading Policies

Please visit the following URL to understand how the University uses the course grade to compute your overall GPA: <u>https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx</u>

#### Concerns, Appeals, and Complaints

Students who have concerns about their evaluation of performance and/or student-faculty relations should review the Student-Faculty Handbook for guidance. The Student-Faculty Handbook also outlines the chain of command for any appeals and/or complaints.

#### Academic Integrity Policy

Students are expected to act in accordance with the University of Florida policy on academic integrity (<u>http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php</u>). This Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult the course's Teaching Partnership Leader.

Students are also expected to abide by the UF Honor Code.

The following is the UF Honor Pledge: *We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code.* 

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

#### **Psychomotor and Learning Expectations**

Psychomotor expectations relate to the ability to meet the physical demands of the pharmacy curriculum. Physically impaired students and students with learning disabilities such as hearing impairment, visual impairment, dyslexia or other specific learning disabilities such as sensory deficit or sensory-motor coordination problems should cooperate with the faculty and staff in addressing these problems in order to meet academic standards.

#### How to Request Learning Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to both the instructor and the academic coordinator when requesting accommodations. Students at all campuses are also expected to provide a copy of the letter of accommodations to the Office of Student Affairs in Gainesville since some learning activities/exams/assessments require their assistance.

- Students with disabilities should follow this procedure as early as possible in the semester. It is
  strongly recommended that the procedure be done before the course starts so there is
  sufficient time to arrange accommodations and so that all learning
  activities/exams/assessments for the course are arranged.
- <u>Please note that you must arrange for accommodations in advance;</u> grades cannot be retroactively changed.

#### **Faculty and Course Evaluations**

Students are expected to provide feedback on the quality of instruction in every course based on 10 criteria. These evaluations are conducted online at <a href="https://evaluations.ufl.edu">https://evaluations.ufl.edu</a>. Evaluations are typically open around mid-semester and need to be completed by the established deadline. Summary results of these assessments are available to students at <a href="https://evaluations.ufl.edu">https://evaluations.ufl.edu</a>.

#### Computer and Other Technology Requirements

Students are required to meet the following computer and technology requirements: <a href="http://pharmacy.ufl.edu/education/student-affairs/admissions/student-computer-requirements/">http://pharmacy.ufl.edu/education/student-affairs/admissions/student-computer-requirements/</a>

ExamSoft<sup>®</sup> is used for administration of exams and students are required to follow the procedures that are established for exam administration. Students must bring a laptop to class to complete exams and this laptop must meet the computer and technology requirements established by the College. These technology requirements require a backup battery with at least 2 hours of life. Students must also complete mock exams prior to the actual exam to assure that all computer features are supported by ExamSoft<sup>®</sup>.

#### **Expectations In Class and Other Learning Activities**

Students are expected to:

- Be diligent and timely in studying the course material.
- Be on time for class sessions, quizzes, and exams.
- Be prepared for group discussions and conference calls.
- Do your own work.
- Actively collaborate with peers when assigned to groups.
- Inform the course coordinator about an absence from an exam or other assigned class activity at least 24 hours prior to the event.
- Dress appropriately for class sessions or clinically related activities.
- Turn off cell phones and other electronic communication devices during a class session or phone conference.
- Be quiet during class sessions including peer presentations.
- Be focused and avoid distractive behaviors in class.
- Appropriately use the computer in class, i.e., do not be looking at unrelated information on the web site during class.
- Participate in class or group discussions.
- Raise one's hand to be recognized before making a comment during a class session.
- Be respectful to the teacher.
- Be respectful to fellow students in discussions.

- Be courteous, respectful, and civil when using discussion boards.
- Focus on the course learning activities; it is not respectful to study for other coursework during the class session.
- Address faculty with the appropriate title and name, i.e., Dr. (last name) or Professor (last name).
- Address concerns about performance or course material directly with the course coordinator, facilitator, or teaching assistant.
- Seek assistance with academic or personal difficulties as soon as possible.

#### Communications

#### **Course-related Communications**

Students with questions about course content should post questions on the discussion board. Questions that are personal in nature (illness, emergencies, excused absence request, request for accommodations) should email the course teaching partnership leader and copy the Academic Coordinator and Distant Campus Dean. The student may email the course leader for any other needs that are personal in nature.

#### Faculty member Response Time:

 The Course Coordinators/instructors will work to respond to postings within 24 hours of the posting between Monday and Friday 12N. Responses on weekends and holidays will be sporadic. (On weekends when assignments are due, students are advised to post questions before 12 Noon on Friday.)

#### **Email Communications:**

- 1. When communicating with faculty via email, the subject line needs to include the course number & title.
- **2.** At the end of the email, in addition to listing your name, list your academic year and campus/site.

#### **Discussion Board Policy**

The purpose of the discussion board is to provide a venue for you to enhance your learning. This is accomplished by having a thread for each module where you can post questions to the course coordinators. (A thread is a single link that is devoted to a topic.) The discussion board is also a place where your instructors may post virtual cases for you to work up.

Such interaction on the discussion boards with the instructors will allow you to clarify your questions and apply what you are learning in other parts of the course. The goal of these discussions is to help you learn.

#### Students Netiquette on the Discussion Board:

- 1. Post your comment on the correct discussion thread. If you have a question about A1 (Unit A Module 1), post it in the discussion thread for A1 and not the B1 thread.
- 2. The discussion board is not a place to complain. Complaints should instead be directed directly to the instructor via email. This allows the primary course coordinator to quickly address your concern without causing distraction to other students who have limited time and want to focus on learning.
- 3. Use "netiquette." If you have never learned "netiquette" please visit the following URL: <u>http://www.albion.com/netiquette/corerules.html</u> If you follow the rules of netiquette

described in this URL, you will avoid posting an embarrassing or inappropriate comment.

- 4. The discussion board has been designed to allow you a place to ask further questions on the material to clarify any confusion, gain a deeper understanding of the material, or ask general course questions. A question you might see on a discussion board is "What do I need to study for the exam?" Please reflect on how this question can be perceived by your lecturing faculty as well as your fellow classmates. Rewording the question to address a specific topic would be more appropriate. For example, "Dr. XX, you listed numerous side effects for drug XX on slide XX. Of those, what are the most relevant that we could expect to occur and monitor for in clinical practice." The type of material that is covered in these classes is material that is important for patient care. All of this material is important. There are variations in courses, but please make use of your syllabus since there might be guidance on how to prepare for various exams in your classes.
- 5. In most situations, lectures are released as planned by the course coordinators. Clarifying at the beginning of a semester on the planned release date/time, if not posted in the syllabus, is appropriate. Continual posts on the discussion board on weekly basis can become overwhelming for the course coordinator as well as your fellow students.

#### Question/Answer sessions in live class sessions:

Time is usually reserved at the end of the class for questions regarding the material to clear up any confusion or expand on material covered in the particular section. This is a valuable time for all students and since time is limited, the questions should focus on the topics at hand. Questions such as, "What material will be covered on an upcoming exam?" or, "Do we need to know dosing for the exam?" are inappropriate during this time period. In our profession, all material is important. However, if this question does need to be asked, please consider using the discussion board to clarify any specific exam questions.

#### **Student Complaint Process**

Concerns about the course (e.g., course requirements, quizzes, exams) should first be discussed with the appropriate course instructor and the Teaching Partnership Leader. If a satisfactory resolution is not achieved, the student may appeal to the Associate Dean for Curricular Affairs and Accreditation who will also engage other individuals depending on the request (e.g., campus dean, department chair, Associate Dean for Student Affairs). If the student finds the decision unsatisfactory, the student may appeal to the Dean of the College of Pharmacy. If this decision is unsatisfactory, the student may appeal to the Ombuds office (<u>https://www.dso.ufl.edu/documents/UF\_Complaints\_policy.pdf</u>).

#### **Religious Holidays**

Please see the University policy on attendance and religious holidays:

http://www.registrar.ufl.edu/catalog/policies/regulationattendance.html#religious.

#### **Counseling and Wellness Center**

Students who are experiencing issues and events that could adversely affect academic performance and personal health should be encouraged to meet with the course coordinator or facilitator or appropriate administrator for guidance. Students in the Gainesville area may contact the UF Counseling and Wellness Center for Gainesville students (352-392-1575;

<u>http://www.counseling.ufl.edu</u>). Students outside the Gainesville area may obtain similar contact information from the campus/program administrator.

#### **Emergencies**

Call the University Police Department for emergencies: 392-1111 or 9-1-1

#### **Student Crisis**

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Students who are experiencing issues and events are also encouraged to contact their local crisis center. For Alachua County the Crisis Center number is 352-264-6789; for Jacksonville and Duval County 904-632-0600 and toll free for Northeast Florida at 1-800-346-6185; and for Orlando 407-425-2624.

The following national call numbers are also available for students who reside outside of the main COP campuses: a) 1-800-273-8255, and b) 1-800-784-2433.

#### How to Access Services for Student Success

Students who need guidance for course success or who are having academic difficulty should contact their advisor/facilitator or Campus Director/Senior Associate Dean for assistance.

#### **Faculty Lectures/Presentations Download Policy**

Photography, Audio-visual recording, and transmission/distribution of classroom lectures and discussions is prohibited unless there is expressed written permission. Recorded lectures and class sessions are authorized solely for the purpose of individual or group study with other UF College of Pharmacy students enrolled in the same class. Such recordings may not be reproduced, shared, or uploaded to publicly accessible web environments. Students who do not adhere to this policy will be considered to be breeching COP copyrights and/or FERPA law.

Please see the following URL for COP Policies: http://file.cop.ufl.edu/studaff/policies/General%20COP%20Course%20Policies.pdf

# Appendix A. Faculty and Staff: Who to Contact

#### Academic Coordinator:

- 1. Questions about dates, deadlines, meeting place
- 2. Availability of handouts and other course materials
- 3. Assignment directions
- 4. Questions about grade entries gradebook (missing grades, wrong grade)
- 5. Assistance with ExamSoft®

#### **Teaching Partnership Leaders**

- 1. Issues related to course policies (absences, make up exams, missed attendance)
- 2. Questions about grades
- 3. Concerns about performance
- 4. Guidance when there are performance problems (failing grades)
- 5. General questions about content

#### **Other Teaching Partnership Faculty Members**

1. Questions about specific content

#### **Technical Support:**

Contact the College of Pharmacy MediaHelp Desk for assistance with course-related technical issues (e.g., Canvas access, video access, printing of documents). The MediaHelp Desk may be reached via the following:

Phone: 352-273-6281 (9am-4PM ET) Email: <u>mediahelp@cop.ufl.edu</u> (response is delayed outside of M-F 9AM-4PM ET)

Contact the University of Florida Computing Help Desk for addresses issues related to:

- 1. Gatorlink accounts,
- 2. Gatorlink email,
- 3. myUFL, and
- 4. ISIS.

Phone: (352)-392-4357

Appendix B.	Teaching	<b>Partners</b>
-------------	----------	-----------------

Name	Email	Phone
Yousong Ding, Ph.D.	yding@cop.ufl.edu	352-273-7742
Michelle Farland, Pharm.D.	mfarland@cop.ufl.edu	352-273-6293
Randy Hatton, Pharm.D.	rhatton@cop.ufl.edu	352-294-5785
Margaret James, Ph.D.	James@cop.ufl.edu	352-273-7707
Maureen Keller-Wood, Ph.D.	kellerwd@cop.ufl.edu	352-273-7687
Denise Klinker, Pharm.D.	DKlinker@cop.ufl.edu	352-273-6227
Caitrin McDonough, Ph.D.	cmcdonough@cop.ufl.edu	352-273-6435
Shannon Miller, Pharm.D.	SMiller@cop.ufl.edu	407-313-7031
Cary Mobley, Ph.D.	mobley@cop.ufl.edu	352-273-6282
Megan Murphy Menezes, Pharm.D	mmenezes@cop.ufl.edu	352-273-6533
Erin St Onge, Pharm.D.	stonge@cop.ufl.edu	407-313-7031
Priti Patel, Pharm.D.	PPatel@cop.ufl.edu	727-394-6213
Kate Smith, Pharm.D.	KSmith@cop.ufl.edu	
Karen Sando, Pharm.D.	KSando@cop.ufl.edu	352-273-6224
James Taylor, Pharm.D.	jtaylor@cop.ufl.edu	352-273-6239
Katie Vogel Anderson, Pharm.D.	kvanderson@cop.ufl.edu	352-273-6413
Kristin Weitzel, Pharm.D.	kweitzel@cop.ufl.edu	352-273-5114
Karen Whalen, Pharm.D.	whalen@cop.ufl.edu	352-273-9497
Almut Winterstein, Ph.D.	almut@cop.ufl.edu	352-273-6258

# Appendix C. Student Guide for Case Studies

Students are accountable for recalling and applying content learned in all prior courses.

Case studies will also require application of one or more of the following Transcending Concepts:

Evidence-based practice	Informatics	Problem solving
□ Social considerations	Behavioral considerations	□ Communications
□ Law and ethics	□ Health-wellness	Drug delivery systems
Pharmacokinetics	Personalized medicine	□ Special populations
□ Self-care	$\Box$ Interprofessional collaboration	□ Medication safety
Pharmacoeconomics	Population-based care	

# **COLLECT** (SO: Subjective and Objective Data)

Students/teams must be able to gather subjective and objective information about the patient in order to understand the relevant medical and medication history and clinical status of the patient. Data are collected by simulated patient interview, medical record review, pharmacy profile review, and/or communication with other members of the healthcare team. Physiological, psychological, and sociological variables are expected to be considered.

- 2. Patient Name:
- 3. Main Disease Focus:
- 4. Type of Encounter/Setting [new patient, established, ED, hospital, clinic, refill, etc]:
- 5. Opening Statement from the Patient:
- 6. If patient is "unavailable" identify who represents the patient:
- 7. Age:
- 8. Gender:
- 9. Marital Status:
- 10. Height/Weight:
- 11. Socioeconomic Status:
- 12. Language:
- 13. Appearance:
- 14. Dress:
- 15. Other Family Members:
- 16. Patient History [What has been happening?]:
- 17. Chief Complaint(s):
- 18. Symptoms:

- 19. Characteristics:
- 20. History/Onset/Acuity/Severity/Progression/Location/Aggravating Factors/Relieving Factors:
- 21. Actual/Feasible Diagnoses:
- 22. Current Medical Problems:
- 23. Relevant Past Medical History:
- 24. Medication List [Name, strength, dose, interval, duration, indication [if known], persistence, adherence]:
  - a. -From Patient
  - b. -From Pharmacies
  - c. -From Primary Care Physician
  - d. -From Specialty Physicians/Hospitalization/ED/Clinic
  - e. -Nonprescription
  - f. -Dietary Supplements
- 25. Reasons for nonpersistence or adherence:
- 26. Information that the patient gives about their medications:
- 27. Immunization History:
- 28. Smoking History:
- 29. Alcohol Use/History:
- 30. Caffeine Intake:
- 31. Illicit Drug Use:
- 32. Sleep Habits:
- 33. Pertinent Laboratory Findings:
- 34. Pertinent Vital Signs:
- 35. Pertinent Physical Exam Findings:
- 36. Other Diagnostic Tests:
- 37. Allergies [include rationale]:
- 38. Intolerance [include history]:
- 39. Patient's Affect:
- 40. Patient's Attitude/Agenda:
- 41. Patient Mannerisms/Nonverbal Behaviors:

Students/teams will also be expected to ask questions during case discussions or simulated patient encounters to gather information not readily available in the chart/written case document.

# ASSESS (A: Assessment; Ask Clinical Questions; Acquire the Best Evidence; and Appraise)

Students/teams will be expected to assess the information collected and the clinical effects of the patient's therapy in the context of the patient's overall health goals in order to identify and prioritize problems and achieve optimal care.

- 1. This evaluation will require:
  - i. understanding, explaining, and assessing the patient's health status;
  - ii. interpretation of physical and patient assessments;
  - iii. assessment of each medication for appropriateness, effectiveness, safety, economics, persistence, and adherence;
  - iv. assessment of health and functional status, risk factors, health data, cultural factors, health literacy, access to medications, and other aspects of care;
  - v. assessment of immunization status and need for preventative care;
  - vi. integration of knowledge, clinical experience, and patient data to formulate and test hypotheses about the etiology of medication-related problems; and,
  - vii. identification of potential and actual medication-related problems.

Students/teams will also be expected to accomplish the following:

- 1. Outline a list of Drug-related Problems.
- 2. Explain Each Basic Science Concept Emphasized:
  - a. Pathophysiology:
    - i. Describe the pathophysiology of disease state(s) and identify appropriate drug targets (cellular/molecular), biochemical processes, and organ changes for therapeutic intervention.
    - ii. Specifically, for a given disease state: describe the basic pathophysiology of the disease including an explanation of the abnormal processes and the resulting disease signs and symptoms; outline risk factors and/or diagnostic indicators (e.g., lab values, diagnostic test results); and, determine classes of drugs that will treat the disease state and ameliorate the underlying pathophysiology and signs/symptoms.

# b. Pharmacology:

- i. Compare and contrast the therapeutic and adverse effects of drug classes that are appropriate for treating the disease state.
- ii. Describe major pathways for metabolism and the pharmacological consequences of metabolism.
- iii. Identify the most common/serious drug interactions and adverse effects. Identify important precautions and contraindications.
- iv. Compare and contrast the therapeutic and adverse effects of drugs within a given class.
- v. Discuss significant pharmacodynamic considerations.
- c. Medicinal Chemistry:

- i. Apply knowledge about structure-activity relationships and cellular/molecular mechanisms of action to identify drug classes that are appropriate for treatment of the disease state.
- ii. Specifically, for each drug class: Identify the relevant therapeutic targets and explain the mechanism(s) of action.

# d. Pharmaceutics:

- i. Recommend any unique storage, handling, or use requirements to ensure patient safety and clinical efficacy.
- ii. Discuss significant pharmacokinetic considerations (e.g., effect of food of absorption, influence of route of administration on onset, dose, elimination, etc).
- 3. Explain Each Transcending Concept Emphasized in this Case:
- 4. Discuss Drug Information Questions/PICOT Statements Relevant to this Case and accurate/complete responses for each question:
  - a. Patient-Population-Problem/Intervention/Comparison/Outcomes/Time Frame
- 5. Summarize the Best Evidence for Each Problem/Question:
  - a. -Search Strategy
  - b. -Guidelines
  - c. -Landmark Clinical Trials
  - d. -Best Available Evidence [with Limitations]
- 6. Identify important Literature Appraisal Issues.

# PLAN (P: Plan)

Students/teams will be expected to develop an individualized **patient-centered** care plan in collaboration with the patient [and/or their caregiver], other healthcare professionals, and other interested parties.

- 1. Specific and General Therapeutic Goals
  - a. Consider clinical outcomes in the context of the patient's overall health and access to care
- 2. Therapeutic Plan
  - a. Develop an individualized patient-centered plan in collaboration with the patient, caregiver, in collaboration with other healthcare professionals, and other interested parties.
    - i. Therapeutic Alternatives: Evaluate alternatives for the patient before establishing the plan
    - ii. Develop the Therapeutic Plan:
      - 1. Address medication-related problems and optimizes therapy considering the goals and desires of the patient;
      - 2. application of established guidelines, evidence-based medicine, and population-based treatment plans;

- accurate and patient-specific dosing (including dosage adjustment for renal/hepatic dysfunction, starting dose, maximum doses, timing of doses, effects of food on absorption, route of administration, and pharmacokinetic design for narrow therapeutic index drugs;
- 4. parameters for monitoring response and frequency of monitoring;
- 5. parameters for monitoring adverse effects and frequency of monitoring;
- 6. plan for patient counseling/education;
- 7. plan for patient counseling/education; and
- 8. Considerations for care continuity, including follow-up and transitions of care as appropriate.
- 3. Patient/Caregiver Engagement: Involve the patient through education, empowerment, and self-management

#### **IMPLEMENT** (Apply)

Students/teams will be expected to implement the care plan in a simulated situation that requires collaboration with the patient/caregiver, other healthcare professionals, and other interested parties.

- 1. When implementing the care plan, the following are to be accomplished:
  - a. medication and health-related problems are addressed;
  - b. preventative care including vaccine administration are provided;
  - c. medication therapy is initiated, modified, discontinued, or administered as authorized;
  - d. education and self-management training is provided to the patient/caregiver;
  - e. refers and provides transitions of care as needed;
  - f. barriers are identified and addressed, when possible; and, schedules follow-up care as needed to achieve goals of therapy.

# FOLLOW-UP, MONITOR, & EVALUATE

Students/teams are expected to monitor and evaluate the effectiveness of their care plan and modify the plan in collaboration with other health care professionals and the patient/care giver.

- 1. The following are continually monitored and evaluated:
  - a. medication appropriateness, effectiveness, and safety and patient adherence through available data, biometric test results and patient feedback;
  - b. clinical endpoints that contribute to the patient's overall health; and, outcomes of care, including progress toward or achievement of goals.
- 2. Specific Recommendations for Follow-up and Monitoring
- 3. List of Quality Improvement Outcomes
  - a. Process Measures
  - b. Clinical Outcomes

#### **COLLABORATE**

Students/teams will be expected to role plan collaborating with patients, caregivers, other healthcare providers, and interested parties when taking care of patients.

# **COMMUNICATE**

Student/teams will be expected to succinctly communicate with patients/caregivers, other healthcare team members, and other interested parties (policy makers, employers, insurance companies, payers) throughout the patient care process.

Examples of typical communications are:

- 1. Important Communication Points and Methods for Data Collection
- 2. Important Communication Points for Assessment
- 3. Collaborate with Team Members: Specific therapeutic approaches for individual patients based on scientifically and logically validated assessment of the patient's health care needs and an ethical consideration of the patient's health care goals and desires
- 4. Communicate the Assessment and Plan via Face-to-face, Telephone, and/or Written documentation
- 5. Communicate Benefits, Risks, Economics, & Other Factors to:
  - a. Patient/Family
  - b. Prescribers
  - c. Policy Makers
  - d. Payers (Insurance Companies, PBMs, Employers, and/or Hospitals)

# **DOCUMENT**

Students/teams will be expected to create written patient care notes (SOAP notes, intervention notes, consultation notes) using the standardized formats learned in prior classes and this course.

- 1. SOAP notes are expected to include the following elements
  - a. Subjective
    - i. Clear
    - ii. Complete Pertinent Information
    - iii. Only Pertinent Information
  - b. Objective
    - i. Verified Medication List
    - ii. Clear
    - iii. Complete Pertinent Information
    - iv. Only Pertinent Information
  - c. Assessment
    - i. Complete and Prioritized List of Medication-related Problems
    - ii. Therapeutic Goals
      - 1. Alternatives are Accurately Presented
    - iii. Findings Synthesized with Enough Depth to Explain but are a Concise Assessment
    - iv. Clear Positions

- d. Plan
  - i. Pertinent Plan with Necessary Instructions
  - ii. Balances Benefits, Risks, and Costs
  - iii. Education and Follow-up is Collaborative and Considers Systems
  - iv. Specific Monitoring Plan
- 2. Responses to Drug Information Questions in the PICOT Format with Summary of the Evidence
  - a. Limitations of the Evidence Stated

# Appendix D. Comprehensive Assessment of Team Member Effectiveness (CATME)

This web-based instrument collects data on team member effectiveness in five areas research has shown to be important.

- 1. Contributing to the team's work
- 2. Interacting with teammates
- 3. Keeping the team on track
- 4. Expecting quality
- 5. Having relevant knowledge skills and abilities.

The CATME Peer Evaluation instrument is a behaviorally anchored rating scale that describes behaviors typical of various levels of performance in each of the above five categories. Raters select the category of behaviors that most closely matches the behavior of each student on their team (including themselves). The CATME website shows the instrument and allows faculty and students to practice using the system by rating fictitious team members.

A special feature is helping professors understand what is happening in student teams. The system alerts faculty to exceptional conditions that are rating patterns that warrant attention.

- Low—a student who rates him/herself as ineffective and who also receives "ineffective" ratings by teammates.
- Overconfident—a student rated as "ineffective" by teammates but rates him/herself as much more effective.
- High—a student who is rated as highly effective according to both teammate and self ratings.
- Underconfident—a student rated as highly effective by teammates but who under-rates her/himself.
- Manipulator—a student who rates him/herself as highly effective and who rates teammates as ineffective in disagreement with teammates. Such a student may be trying to influence the distribution of grades unfairly.
- Conflict—a team in which there is considerable disagreement among the various raters about the effectiveness of an individual student.
- Clique—a team in which cliques appear to have formed. The ratings show that subsets of the team rate members of their subset high and members of other subsets low.

Some of these conditions have more than one explanation. A student flagged as a "manipulator" might actually have performed a disproportionately large amount of the work on the project even though they worked to engage their teammates in the process. Thus, an instructor's involvement and judgment are critical when exceptional conditions are flagged. Though the formal study of these exceptions has not been completed, faculty using the system have reported that both the clique and conflict conditions have accurately provided early warnings of those condition

Comprehensive Assessment of Team Member Effectiveness—Behaviorally	Anchored Ratin	g Scale (BARS) Version
--	----------------	------------------------

	Your	0			2.5.9	• Write the names of the people on your team including your own name.
						This self and peer evaluation asks about how you and each of your teammates contributed to the team during the time period you are evaluating. For each way of contributing, please read the behaviors that describe a "1", "3," and "5" rating. Then confidentially rate yourself and your teammates.
	0 ×	1		1		Does more or higher-quality work than expected
	5	5	5	5	5	Makes important contributions that improve the team's work.     Helps to complete the work of teammates who are having difficulty.
3 2	4	4	4	4	4	Demonstrates behaviors described in both 3 and 5
B N	100 C	1	-	-	1	Completes a fair share of the team's work with acceptable quality
tribut cam's	3	3	3	3	3	Keeps commitments and completes assignments on time.     Fills in for teammates when it is easy or important.
E D	2	2	2	2	2	Demonstrates behaviors described in both 1 and 3.
υĘ	1	1	1	1	1	<ul> <li>Does not do a fair share of the team's work. Delivers sloppy or incomplete work.</li> <li>Misses deadlines. Is late, unprepared, or absent for team meetings.</li> <li>Does not assist teammates. Quits if the work becomes difficult.</li> </ul>
1122	5	5	5	5	5	<ul> <li>Asks for and shows an interest in teammates' ideas and contributions.</li> <li>Improves communication among teammates. Provides encouragement or enthusiasm to the team.</li> <li>Asks teammates for feedback and uses their suggestions to improve.</li> </ul>
s vith	4	4	4	4	4	Demonstrates behaviors described in both 3 and 5.
racting v eammate	3	3	3	3	3	<ul> <li>Listens to teammates and respects their contributions.</li> <li>Communicates clearly. Shares information with teammates. Participates fully in team activities.</li> <li>Respects and responds to feedback from teammates.</li> </ul>
T	2	2	2	2	2	Demonstrates behaviors described in both 1 and 3.
10	1	1	1	1	1	<ul> <li>Interrupts, ignores, bosses, or makes fun of teammates.</li> <li>Takes actions that affect teammates without their input. Does not share information.</li> <li>Complains, makes excuses, or does not interact with teammates. Accepts no help or advice.</li> </ul>
-	5	5	5	5	5	<ul> <li>Watches conditions affecting the team and monitors the team's progress.</li> <li>Makes sure that teammates are making appropriate progress.</li> <li>Gives teammates specific, timely, and constructive feedback.</li> </ul>
E.	4	4	4	4	4	Demonstrates behaviors described in both 3 and 5.
g the 1 Track	3	3	3	3	3	<ul> <li>Notices changes that influence the team's success.</li> <li>Knows what everyone on the team should be doing and notices problems.</li> </ul>
id io				-	-	Alerts teammates or suggests solutions when the team's success is threatened.
Ke	1	1	1	1	1	Is unaware of whether the team is meeting its goals.     Does not pay attention to teammates' progress.     Avoids discussing team problems, even when they are obvious.
	5	5	5	5	5	<ul> <li>Motivates the team to do excellent work.</li> <li>Cares that the team does outstanding work, even if there is no additional reward.</li> <li>Believes that the team can do excellent work.</li> </ul>
80	4	4	4	4	4	Demonstrates behaviors described in both 3 and 5.
xpectin Quality	3	3	3	3	3	<ul> <li>Encourages the team to do good work that meets all requirements.</li> <li>Wants the team to perform well enough to earn all available rewards.</li> <li>Believes that the team can fully meet its resonsibilities.</li> </ul>
ω.	2	2	2	2	2	Demonstrates behaviors described in both 1 and 3.
	I	1	1	1	1	<ul> <li>Satisfied even if the team does not meet assigned standards.</li> <li>Wants the team to avoid work, even if it hurts the team.</li> <li>Doubts that the team can meet its requirements.</li> </ul>
vledge, es	5	5	5	5	5	<ul> <li>Demonstrates the knowledge, skills, and abilities to do excellent work.</li> <li>Acquires new knowledge or skills to improve the team's performance.</li> <li>Able to perform the role of any team member if necessary.</li> </ul>
Non	4	4	4	4	4	Demonstrates behaviors described in both 3 and 5.
levant K and Abi	3	3	3	3	3	<ul> <li>Has sufficient knowledge, skills, and abilities to contribute to the team's work.</li> <li>Acquires knowledge or skills needed to meet requirements.</li> <li>Able to perform some of the tasks normally done by other team members.</li> </ul>
Rel ills,	2	2	2	2	2	Demonstrates behaviors described in both 1 and 3.
Having Sk	1	1	1	1	1	<ul> <li>Missing basic qualifications needed to be a member of the team.</li> <li>Unable or unwilling to develop knowledge or skills to contribute to the team.</li> <li>Unable to perform any of the duties of other team members.</li> </ul>

For further information on the design of the CATME Peer Evaluation instrument, research supporting its use, or to request an account, go to www.CATME.org. The instrument is copyrighted. CATME Peer Evaluation is part of the CATME SMARTER Teamwork system, which includes other team-support tools. The CATME online interface was developed by Deer Run Associates. This material is based upon work supported by NSF Awards 0243254 and 0817403.

# **Content Hour Map**

# Course: PHA 5787C Patient Care 5: Endocrinology and Women's & Men's Health

\*Case Studies and Capstone Sessions are active learning sessions that allow for application of other coursework. <u>Since part of the</u> <u>time involves interaction with team members rather than faculty members</u>, a 2.0 hr contact time is equivalent to 1.0 hr of instructor contact time.

\*\*Transcending concepts provide content that will be applied during the Case Studies.

Date Recommended Dates for Viewing Videos	Module and Unit	Unit Topic Learning Resources will include Lecture Videos and readings.	Instructor Contact Hours <sup>a</sup>	Outside Study	Relationship to Course Grading	Faculty <sup>b</sup>
	Module 1: System (Approxim hrs of out o Pharmacol Medicinal PTR:	Introduction to the Endocrine ately 8 hours of direct instruction & 16 if class; total = 24 hrs) logy: Maureen Keller-Wood Chemistry: TBD Shannon Miller				
Mar 13 (M)	1A	Video-lecture: Pathophysiology of the endocrine system: Thyroid	1	2 (Allows for re-watch of video-lectures and textbook/journal	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Shannon Miller

Mar 13 (M)	1B	Video-lecture: Pathophysiology of the endocrine system: Adrenal	1	readings with the same content.) 2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Maureen Keller- Wood
Mar 13 (M)	1C	Video-lecture: Pharmacology of steroids	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Maureen Keller- Wood
Mar 13 (M)	1D	Video-lecture: Pathophysiology of the endocrine system: Calcium and parathyroid disorders	2	4 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Shannon Miller
Mar 13 (M)	1E	Video-lecture: Management of Thyroid Disorders	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Shannon Miller

Mar 15 (W)	Case St Thyroid	tudies: Endocrine system & d Disorders	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	
	Module 2: Introdu General Managem (Approximately 19 39 hrs of out of class Pharmacology: Medicinal Chemist PTR:	ction to Diabetes and nent <b>9.5 hours of direct instruction &amp;</b> s; total = 58.5 hrs) Jim Taylor ry: Yousong Ding Jim Taylor & Karen Sando				

Mar 15 (W)	2A	Video-lecture: Pathophysiology of Diabetes (Type 1 and Type 2)	1.5	3 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Jim Taylor
Mar 16 (Th)	2B	Video-lecture: Medicinal Chemistry: hypoglycemic & insulin	2	4 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Yousong Ding
Mar 16 (Th)	2C	Video-lecture: Pharmacology: hypoglycemic & insulin	2	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Jim Taylor (Oral) Karen Sando (Insulin)
Mar 17 (Fr)		Case Studies: Pathophysiology & Drug Management of Diabetes	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study.	

					Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	
Mar 17 (Fri)	2D	Video-lecture: General Management of Diabetes	3	6 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Shannon Miller
Mar 17 (Fri)	2E	Video-lecture: Transcending Concept – Health and Wellness - Diabetes	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Michelle Farland
Mar 20 (M)		Case Studies: General Management of Diabetes	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team	

					assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	
Mar 22 (W)	2F	Video-lecture: Chronic Diabetes Management and Complications (Hyperosmolar syndrome, DKA, CV risk)	3	6 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	?
Mar 22 (W)	2G	Video-lecture: Diabetes and behavioral adherence	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	?
Mar 23 (Th)		Case Studies: Chronic Diabetes Management	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team assessment of knowledge and use of	

					CATME Rubric to assess ability of student to collaborate as a team member.)	
Mar 24 (F)		Exam 1	2	8	Exam is 20% of grade; Administered in classroom via ExamSoft	
	Module 3: Reproduct (Approxim 29 hrs of ou Pharmacol Medicinal PTR:	Women's Health in Early sive Life (Contraception)aately 14.5 hours of direct instruction & at of class; total = 43.5 hrs)logy:Maureen Keller-WoodChemistry:Margaret James Karen Whalen & Priti Patel				
Mar 27 (M)	3A	Video-lecture: Pathophysiology of the Endocrine System: Female reproduction; pregnancy and reproductive disorders	1	2 (Allows for re-watch of video-lectures and textbook/journal	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Karen Whalen

Mar 27 (M)	3B	Video-lecture: Pharmacology of: estrogens, infertility agents, contraceptives, androgen, progestins	2	readings with the same content.) 4 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Maureen Keller- Wood & Karen Whalen
Mar 27 (M)	3C	Video-lecture: Medicinal chemistry of: estrogens, infertility agents, contraceptives, androgen, progestins	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Margaret James
Mar 27 (M)	3D	Video-lecture: Transcending Concept: Drug Delivery Systems - Contraceptives	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Cary Mobley
Mar 29 (W)		Case Studies: Endocrine therapy	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study.	

					Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	
Mar 29 (W)	3E	Video-lecture: Contraception	2	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Karen Whalen
Mar 30 (Th)	3F	Video-lecture: Menstruation related disorders	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Karen Whalen
Mar 30 (Th)	3G	Video-lecture: Transcending Concept: Professionalism including Ethics & Law – Condoms and birth control for teenagers	0.5	1 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Karen Whalen
Mar 30 (Th)	3Н	Video-lecture: Transcending Concept: Evidence-based Practice:	1	2 (Allows for re-watch of video-lectures and	Knowledge assessed by individual and team	Priti Patel

		Review and appraisal of cohort studies		textbook/journal readings with the same content.)	quizzes (in class) just prior to the case study.	
Mar 30 (Th)	31	Video-lecture: Transcending Concept: Self-care (vaginal and vulvovaginal infections (candida, etc); pregnancy testing)	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Karen Whalen
Mar 31 (F)		Case Studies – Early Reproductive Life	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	
	Module 4: Lactation (Approxim 15 hrs of ou	Women's Health During Pregnancy & nately 7.5 hours of direct instruction & nt of class; total = 22.5 hrs)				

	Pharmacol Medicinal PTR:	logy: Priti Patel Chemistry: TBD Erin St Onge & Karen Whalen				
Mar 31 (F)	4A	Video-lecture: Pregnancy and Lactation	2	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Priti Patel
Apr 3 (M)	4B	Video-lecture: Drug Information Resources for Pregnancy and Lactation	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Priti Patel
Apr 3 (M)	4C	Video-lecture: OTC Use in Pregnancy	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Erin St Onge

Apr 3 (M)	4D	Video-lecture: Transcending Concept: Special Populations – Drug dosing in pregnancy	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Karen Whalen
Apr 3 (M)	4E	Video-lecture: Transcending Concept: Interprofessional & Medication Safety– Communicate with other health providers when an error occurs (Case from Karen Whalen)	0.5	1 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Karen Whalen
Apr 5 (W)		Case Studies: Pregnancy and Lactation	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	

Apr 6 (Th)		Exam 2	2	8	Exam is 20% of grade; Administered in classroom via ExamSoft	
	Module 5: (Approxim 26 hrs of ou Pharmacol	Women's Health in Mid to Late Life nately 12 hours of direct instruction & ut of class; total = 39 hrs) logy: Maureen Keller-Wood				
	Medicinal PTR:	Chemistry: TBD Erin St Onge Katie Vogel Anderson Megan Murphy Menezes				
Apr 7 (Fr)	5A	Video-lecture: Hormone therapy in women	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Erin St Onge
Apr 7 (Fr)	5B	Video-lecture: Urinary incontinence	1	2	Knowledge assessed by individual and team	Katie Vogel Anderson

				(Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	quizzes (in class) just prior to the case study.	
Apr 7 (Fr)	5C	Video-lecture: Osteoporosis	2	4 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Megan Murphy Menezes
Apr 7 (Fr)	5D	Video-lecture: Transcending Concept: Population-based care including pharmacoeconomics – decision analysis - bisphosphonates	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Almut Winterstein
Apr 10 (M)		Case Studies: Mid to Late Life	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess	

					ability of student to collaborate as a team member.)	
Apr 10 (M)	5E	Video-lecture: Breast Cancer	2	4 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	TBD
Apr 10 (M)	5F	Video-lecture: Transcending Concept: Personalized Medicine – Breast Cancer	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Caitrin McDonough Kristin Weitzel
Apr 12 (W)		Case Studies: Breast Cancer	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to	

					collaborate as a team member.)	
	Module 6: Men's Health (Approximately 11.5 hours of direct instruction & 23 hrs of out of class; total = 34.5 hrs)					
	Pharmacol Medicinal PTR:	ogy: Maureen Keller-Wood Chemistry: TBD Katie Vogel Anderson				
Apr 12 (W)	6A	Video-lecture: Pathophysiology of the Endocrine System: Male reproduction	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Katie Vogel- Anderson
Apr 13 (Th)	6B	Video-lecture: Testosterone replacements	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Katie Vogel- Anderson
Apr 13 (Th)	6C	Video-lecture: Erectile dysfunction	1	2	Knowledge assessed by individual and team	Katie Vogel- Anderson

				(Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	quizzes (in class) just prior to the case study.	
Apr 13 (Th)	6D	Video-lecture: Benign prostatic hyperplasia & Incontinence	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Katie Vogel- Anderson
Apr 13 (Th)	6E	Video-lecture: Transcending Concept: self-care - Men's health issues (muscle-building supplements and condoms)	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	TBD
	6F	Video-lecture: Transcending Concept: Population-based care including pharmacoeconomics – decision analysis – erectile dysfunction	Embedded in Case		Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Almut Winterstein
Apr 14 (Fr)		Case Studies: Men's health	2.0 hr (4.0 hr workup)	4 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from	

					individual/online study. Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	
Apr 14 (Fr)	6G	Video-lecture: Management of Prostate Cancer	2	4 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	TBD
Apr 14 (Fr)	6Н	Video-lecture: Transcending Concept: Social – Cultural competency –Lesbian, Gay, Bisexual and Transgender	1.5	3 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	TBD
Apr 17 (M)	61	Video-lecture: Transcending Concept : Health information and informatics (HIT in Inpatient Settings)	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	Denise Klinker

	Module 7: (Approxim Pharmaco Medicinal PTR:	Sexually Transmitted Diseases nately 2.5 hours of direct instruction) logy: Maureen Keller-Wood? Chemistry: Robert Huigens? Ken Klinker?				700
Apr 17 (M)	7A	Video-lecture: Managing Sexually Transmitted Diseases	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	TBD
Apr 17 (M)	7B	Video-lecture: Managing Sexually Transmitted Diseases	1	2 (Allows for re-watch of video-lectures and textbook/journal readings with the same content.)	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	TBD
Apr 17 (M)	7C	Video-lecture: Transcending Concept: Self-care—STD Prevention	0.5	1 (Allows for re-watch of video-lectures and textbook/journal	Knowledge assessed by individual and team quizzes (in class) just prior to the case study.	TBD

			readings with the same content.)		
Apr 19 (W) Apr 20 (Th)	Module 8: Capstone (Approximately 8 hrs of direct instruction within 16 hrs of case studies/patient work up activities; across 2 days)	8.0 hr (16.0 hr workup)	16 (Prep for quiz and case)	2 Quizzes at start of class assess knowledge from video-lectures from individual/online study. Team Assessment (There is both a team assessment of knowledge and use of CATME Rubric to assess ability of student to collaborate as a team member.)	All Faculty
Apr 21 (Fr)	Comprehensive Final Exam	2	8	Exam is 30% of grade; Administered in classroom via ExamSoft	
	Total Instructor Contact Hours	90.5 + 2 Final Exams = 92.5	203		

This course is estimated to require 270 hours over 6 weeks (i.e., 45 hours per week for a 6-credit-hour course) = 90 hours (i.e., 15 hours per week) of "direct faculty instruction" (videos and in-class time) and a minimum of 180 hours (i.e., 30 hours per week) of "out-of-class" (readings, studying, and preparation for

cases) work. Note: As noted by UF policy, for each hour of "Instructor Contact," students are expected to spend a minimum of 2 hours of additional time completing learning activities. Thus, if a week has 15 hours of Instructor Contact, the student should plan on a minimum of 30 additional hours of study. Therefore, they typical student will devote 45 hours of effort to the course that week. The course hours estimated in this syllabus are for a <u>"typical" student</u> – some students will find that they will devote less time, while others will need to devote more time.

# **Student Evaluation & Grading**

#### Evaluation Methods and how grades are determined

The Canvas<sup>©</sup> gradebook will be set up using the percentages below to compute the grade. The Case Studies Sessions and the Capstone will involve students working in assigned teams and collaboratively preparing for the class sessions and solving the case studies.

Assessment Item	Grade
	Percentage
Individual Quizzes	10
Each Case Studies Session includes an individual quiz (N = 10)	
Team Assessment*	20*
Each Case Studies Session includes a group quiz (N = 10)	
Exam 1	20
Exam 2	20
Comprehensive Final Exam	30
Total	100%

\*Please note that group quiz points earned in this course will be reduced with an up to a <u>5-point deduction</u> should your contribution to your team's effectiveness, assessed using CATME (Appendix D [peer assessment]), finds that your performance requires improvement. For example, a student earning 13 of 15 possible points for a tRAT category could see earned points drop to 8 out of the 15 possible points.

# PHA 5787C: Patient Care 5: Endocrinology and Women's & Men's Health [CA]

1. http://apps.aa.ufl.edu/Approval/Requests/Info/10861

# **Committee Comments:**

 Please clarify the contact hours for the course and credit hours for course. There may be an issue in regards to UF policy.

In all of the Patient Care courses, the <u>instructor contact time</u> includes:

- Video Lectures (Pharmacology, Medicinal Chemistry, Management of a disorder, etc) These are traditional lectures that are available via video so that students may learn outside the classroom and re-watch the lectures as needed to learn concepts/memorize material for recall and recitation.
- 2. **Case Study discussions** which are done in a brick and mortar classroom. These involve active learning. There is typically a quiz at the beginning of the session so that students are accountable for completing the video lectures before coming to a case study session.
- 3. Exams: All exams are administered via ExamSoft<sup>®</sup>. The exams are taken in a brick and mortar classroom. Before coming to class, students download an encrypted file on their laptop. At the start of the exam, the instructor provides a passcode that allows the student to open the file and take the exam. Upon leaving the exam, the instructor verifies the student has closed the file. The student then uploads the encrypted file when they leave the classroom. (Most HSC Colleges and the Law School are using ExamSoft)

<u>All of these are considered instructor contact time.</u> Lectures count like traditional course lectures. The case studies involve some small group work that is completed with the instructor in the room. Therefore, the contact hour calculation for these considers that 2 hours of case discussion = 1 hour of traditional contact time. (This is the reason this is a C course.)

Our assumption is that because these activities are similar to a traditional classroom, the student spends 2 hours of outside time for each 1 hour of instructor contact time.

# **Outside Study** Includes:

- 1. **Re-watch video-lectures and/or stop and restart videos.** This allows the student to comprehend the information and clarify learning of material.
- 2. Read assigned textbook chapters, journal articles, and other medical literature containing the content discussed in the video-lectures. These readings allow for reinforcement of information provided in the video-lectures.

- 3. **Self-assessments.** A self-assessment allows the student to determine comprehension of course content. The instructor does not monitor whether the student completes the assessment and therefore, it is an ungraded activity.
- 4. **Discussion board review/readings.** There is a discussion board in the course that allows for student:student and student:instructor interaction. Understanding of course material can be discussed asynchronously. Students may also ask general questions about the course.
- 5. Individual study to prepare for quizzes/exams.
- 6. Individual study to review notes and materials following a class session.

This course equates to approximately 1 credit hour of work per week. To accomplish this, the student is expected to spend 15 hours completing "instructor directed learning" and 30 hours of "outside learning." This total is 45 hours per week. This information is also denoted in each of our syllabi.

We recently conducted a survey and our students indicated an understanding that they are expected to complete this outside study.

- Uses language in the Quiz/Exam Policy common to other 5000 level PHA courses.
  - There is confusion regarding how the examinations are administered. Is the exam a sit-down exam (During the Exam) that must be uploaded within 24 hours (After the Exam)? Please clarify the nature of the examinations.

See above about use of Examsoft. Students complete the exam in a brick and mortar classroom. But, the encrypted file is uploaded to Examsoft website after they leave the classroom. (This approach prevents issues if there are broadband issues during the exam.)

- Please bring course make-up policy in line with UF Attendance/makeup Policy:
  - Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at: <u>https://catalog.ufl.edu/ugrad/current/regulations/i</u>

<u>nfo/attendance.aspx</u>

We believe the policy is consistent with UF policy. We encourage students to complete any make up within 1 week because our blocks are shorter than a semester. (eg, 1 week to 10 weeks in length). This is done because of our block model and that the upcoming courses often require successful completion of prior courses. (Our co-requisite statement provides flexibility in these pre-requisites if a student has illnesses, etc.) However, if students need more time, this is accommodated.

Below is our statement. If students need extended time for makeup, we have them meet with the course instructor (Teaching Partnership Leader" and the Associate Dean for Student Affairs to determine how to make up the missed sessions.

As noted below – we include the UF policy statement.

Makeup assignment(s) will be made for any excused absence(s) and will typically be submitted *within one-week of the missed session(s)*. If the situation leads to missing multiple class sessions and makeup becomes difficult, the student and Teaching Partnership Leader will meet with the Associate Dean of Student Affairs to develop options such as a makeup/remediation plan or course withdrawal. The time period for this make up will be consistent with the UF attendance policies.

Class attendance requires full engagement of activities and discussions. The following are unacceptable during class: 1) read non-course related materials that are either in hard-copy or web-based, 2) study for other courses, 3) use a laptop for activities that are not course-related. Class participation will be reduced in such situations.

Please refer to the University Attendance Policy at https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

2. If students have an excused absence UF policy allows them to make-up exams/work.