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PHA5789C Patient Care VII: Brain and Behavior

Spring 2021

6 Credit Hours – A-E Grading

*Seventh 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 disorders involving the brain and behavior. 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.*

Teaching Partnership Leader

Carol Motycka, Pharm.D.

- Email: motycka@cop.ufl.edu
- Office: Jacksonville Campus
- Phone: 904-244-9590
- Office Hours: Please see the Canvas course site for posted office hours

See Appendix A. for Course Directory of Faculty and Staff Contact Information.

Entrustable Professional Activities

This course will prepare you to perform the following activities which the public entrusts a Pharmacist to perform:

Patient Care Provider Domain

1. Analyze information to determine the effects of medication therapy, identify medication-related problems, and prioritize health-related needs.
 - ST2.1. Assess a patient's signs and symptoms to determine whether the patient can be treated within the scope of practice or requires a referral
 - ST2.3. Interpret laboratory test results
 - ST2.5. Assess a patient's health literacy using a validated screening tool
 - ST2.6. Compile a prioritized health-related problem list for a patient.
 - ST2.7. Evaluate an existing drug therapy regimen

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2. Establish patient-centered goals and create a care plan for a patient in collaboration with the patient, caregiver(s), and other health professionals that is evidence-based and cost-effective
 - ST3.2. Develop a treatment plan with a patient. (including recommend therapeutic alternatives and generic substitution)
 - ST3.3. Manage drug interactions.
 - ST3.4. Select monitoring parameters to determine the therapeutic and adverse effects related to the treatment plan.
 - ST3.6. Create a patient-specific education plan.
4. Implement a care plan in collaboration with the patient, caregivers, and other health professionals.
 - ST4.1. Write a note that documents the findings, recommendations, and plan from a patient encounter.
 - ST4.2. Educate a patient regarding the appropriate use of a new medication, device to administer a medication, or self-monitoring test.
 - ST4.4. Assist a patient with behavior change (e.g., use shared decision making and motivational strategies).
5. Follow-up and monitor a care plan.
 - ST5.2. Evaluate the selected monitoring parameters to determine the therapeutic and adverse effects related to the treatment plan.
 - ST5.3. Recommend modifications or adjustments to an existing medication therapy regimen based on patient response.

Interprofessional Team Member Domain

6. Collaborate as a member of an interprofessional team.
 - ST6.3. Communicate a patient's medication-related problem(s) to another health professional.

Population Health Promoter Domain

7. Identify patients at risk for prevalent diseases in a population.
 - ST7.1. Perform a screening assessment to identify patients at risk for prevalent diseases in a population (e.g., hypertension, diabetes, depression).
8. Minimize adverse drug events and medication errors.
 - ST8.1. Assist in the identification of underlying system-associated causes of errors.
 - ST8.2. Report adverse drug events and medication errors to stakeholders.

Information Master Domain

9. Use evidence-based information to advance patient care.
 - ST12.1 Retrieve and analyze scientific literature to make a patient-specific recommendation.

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Course-Level Objectives

Given a case of a patient with one or more of the above disorders/pharmacotherapy needs, 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 and analyze the data in order to understand the relevant medical/medication history and clinical status of the patient.
 1. Subjective and objective information is collected through comprehensive medication review with the patient, 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 formulate a problem list consisting of the patient's active medical problems and medication therapy problems in order to prioritize medication therapy recommendations to achieve the patient's overall health goals.
 1. Assess the patient's active medical conditions taking into account clinical and patient goals of therapy.
 2. Assess the indication, effectiveness, safety, adherence and convenience (administration, access, affordability) of each medication the patient is taking.
 3. Include in the assessment an evaluation of risk factors, relevant psychosocial issues, and the need for preventative care or for referral to another healthcare practitioner for further evaluation
 4. Formulate a medication therapy problem list, classifying the patient's medication therapy problems based on indication, effectiveness, safety, and compliance.
 5. Prioritize the patient's medication therapy problems.
- iii. **Plan:** Develop an individualized patient-centered care plan in collaboration with other health care professionals and the patient/caregiver that is evidence-based and as affordable as possible.
 1. For each problem, create patient-centered goal(s) in collaboration with the patient/caregiver and other members of the healthcare team
 2. Develop a care plan to manage the patient's active medical conditions and resolve the identified medication therapy problems.
 3. Identify monitoring parameters to assess effectiveness, safety, adherence, and quality of life.
- iv. **Implement:** Implement the care plan in collaboration with other health care professionals and the patient/caregiver.
 1. For each condition and associated recommended strategy for resolving identified MTPs, provide the medication order in its entirety, including full drug name, dose, dosage form, route of administration, dosing interval, duration of therapy
 - a. Discuss the care plan with the patient.
 - b. Educate the patient on his/her medications (which may include explanations of medication action, the regimen or its proper discontinuation, proper medication use and storage, expected results and when to expect them, possible adverse effects, and when and how to follow-up or seek additional care.

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2. Where appropriate, contribute to coordination of care by providing documentation to other providers using an evidence-based method of communication, such as SBAR (Situation, Background, Assessment, Recommendation) or SOAP (Subjective, Objective, Assessment, Plan)
- v. **Follow-up with the Patient:** Monitor and evaluate the effectiveness of the care plan and modify the plan in collaboration with other health care professionals and the patient/caregiver.

Course Pre-requisites

1. Completion of all Year 2 Pharm.D. program coursework including milestones.

Course Co-requisites

1. PHA5166L Professional Practice Skills Lab

Course Outline

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.

Date	Mod#	Unit Topic	Contact Hours [hr.]^a	Faculty Author
	1	Module 1: Introduction to Brain Behavior and acute brain injury	9.75	
	1.1	Unit 1.1: Pathophysiology: Brain neurochemistry	1.0 hr	McMahon
	1.2	Unit 1.2: Blood Brain Barrier	0.5 hr	Liu
	1.3	Unit 1.3: Pharmacology: Anesthetics	0.5 hr	McMahon
	1.4	Unit 1.4: CNS penetration of medications, encephalitis, and meningitis		Voils/Manasco

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Date	Mod #	Unit Topic	Contact Hours [hr.]a	Faculty Author
		1.4.1 CNS penetration, encephalitis, and meningitis in adults	1 hr	Voils/Manasco
		1.4.2 Meningitis in pediatric patients	0.5 hr	Manasco
	1.5	Unit 1.5: Primary Prevention of Stroke	1.0hr	Dietrich
	1.6	Unit 1.6: Secondary Prevention of Stroke	1.0 hr	Dietrich
	1.7	Unit 1.7: Pathophysiology and Management of Acute Stroke		Rosen
		1.7.1 Ischemic Stroke	1.0 hr	Rosen
1/12/21 10:40-12:35 PM – Part 1 1/13/21 10:40-12:35 PM – Part 2	1	Active Learning Session 1: <i>Case Studies – Quiz – In Class Graded Cases</i>	2.0hr (4.0hr workup)	McMahon, Liu, Dietrich, Rosen, Manasco

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Date	Mod#	Unit Topic	Contact Hours [hr.]^a	Faculty Author
	2	Module 2: Geriatric Neurological Disorders	10.5hr	
	2.1	The Mental Health Exam	1.0hr	Michael Shapiro, MD
	2.2	General principles of neuropsychiatric disorder management	0.5hr	Markowitz
	2.3	Unit 2.3: Medicinal chemistry of drugs used in Parkinson's disease, Alzheimer's disease	1.0hr	Aldrich
	2.4	Unit 2.4: Pharmacology of drugs used in Parkinson's disease, Alzheimer's disease (includes discussion about dopamine)	3.0hr	Liu
	2.5	Unit 2.5: Management of Parkinson's Disease	1.5hr	Markowitz
	2.6	Unit 2.6: Management of Alzheimer's Disease	1.0hr	Miller
	2.7	Unit 2.7: TC: Special Populations - geriatric dosing (builds on prior coursework related to geriatrics)	0.5hr	Vogel Anderson
	2.8	Unit 2.8: TC: Appropriate Self-Care (OTC & Herbals) for patients with Neurodegenerative disorders	0.5hr	Miller, Grundmann
	2.9	Unit 2.9: TC: Quality assessment to develop targets for QI	0.5hr	Goodin
1/15/21 1:30-5 PM	2	Active Learning Session 2: Alzheimer's and Parkinson's Patient Case Studies - Quiz	2.0hr (4.0hr workup)	Miller, Liu, Aldrich, Markowitz, Vogel Anderson, Grundmann, Goodin
1/19/21 2-4:30 PM	1-2	Exam 1: Modules 1-2	2.5hr	
	3	Module 3: Psychotic Spectrum Disorders	10.0hr	
	3.1	Unit 3.1: Background/Etiology of Psychotic Spectrum Disorders	0.5hr	Markowitz
	3.2	Unit 3.2: Pathophysiology of Psychotic Spectrum Disorders	0.5hr	Peris
	3.3	Unit 3.3: Medicinal chemistry of drugs affecting dopaminergic, serotonergic systems, antipsychotics	2.0hr	McCurdy
	3.4	Unit 3.4: Pharmacology of antipsychotic medications	2.0hr	Peris
	3.5	Unit 3.5: Management of Psychotic Spectrum Disorders: Focus on Schizophrenia	2.0hr	Markowitz

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Date	Mod#	Unit Topic	Contact Hours [hr.]^a	Faculty Author
		Watch: Personalized Medicine for Psychotic Spectrum Disorders	0.25hr	Wiisanen
	3.6	Unit 3.6: TC: Social - health disparities - psychiatric illness	0.5hr	Miller
	3.7	Unit 3.7: TC: Pharmaceutical Dosage Formulations of psychotropic drugs	0.5hr	Cristofolotti
1/22/21 10:40-12:35 PM –Part 1 1/22/21 1:55-3:50 PM –Part 2	3	Active Learning Session 3: <i>Case Studies - Quiz</i>	2.0hr (4.0hr workup)	Markowitz, McCurdy, Peris, Miller, Wiisanen, Cristofolotti
	4	Module 4: Mood Disorders	11.75hr	
	4.1	Unit 4.1: Background/Etiology of Mood Disorders	0.5hr	Markowitz
	4.2	Unit 4.2: Medicinal chemistry antidepressants	2.0hr	Xing
	4.3	Unit 4.3: Pharmacology of antidepressant and mood stabilizing drugs	2.0hr	Peris
	4.4	Unit 4.4: Management of Depressive Disorders	2.0hr	Markowitz
	4.5	Unit 4.5: Management of Bipolar Disorder	1.5hr	Markowitz
	4.6	Unit 4.6: TC: Behavioral Issues in psychiatric patients (adherence, difficult to manage, etc.) – reinforce prior course sequence content	0.5hr	Roane
	4.7	Unit 4.7: TC: Communication - communicating with patients who have mental health problems; talking about suicide	0.5hr	Martinez
	4.8	Unit 4.8: TC: Herbals – Depressive Disorders	0.5hr	Grundmann
	4.9	Watch: Personalized Medicine for Mood Disorders	0.25hr	Wiisanen
1/27/21 10:40-12:35 PM –Part 1 1/27/21 1:55-3:50 PM –Part 2	4	Active Learning Session 4: <i>Case Studies - Quiz</i>	2.0hr (4.0hr workup)	Markowitz, Peris, Roane, Grundmann, Xing, Wiisanen

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Date	Mod#	Unit Topic	Contact Hours [hr.]^a	Faculty Author
	5	Module 5: Anxiety and Sleep-Wake Disorders	9.5hr	
	5.1	Unit 5.1: Background/Etiology of Anxiety and Sleep-Wake Disorders	0.5hr	Markowitz
	5.2	Unit 5.2: Medicinal chemistry of benzodiazepines (anxiolytics and sleep), non- benzodiazepines	1.5hr	McCurdy
	5.3	Unit 5.3: Pharmacology of benzodiazepines (anxiolytics and sleep), non-benzodiazepines (including use of GABA and serotonergic agents)	1.5hr	McMahon
	5.4	Unit 5.4: Management of Sleep-Wake Disorders	1.0hr	Markowitz
	5.5	Unit 5.5: Management of Anxiety Disorders I (generalized anxiety, panic, social anxiety disorders)	0.75hr	Markowitz
	5.6	Unit 5.6: Management of Anxiety Disorders II (PTSD, Obsessive compulsive disorder)	0.75hr	Markowitz
	5.7	Unit 5.7: TC: Case control studies and self-controlled designs (sampling, ORs versus RRs, specific biases);	0.5hr	Goodin
	5.8	Unit 5.8: TC: Self-Care (Herbals): Sleep and anxiolytics	0.5hr	Grundmann
	5.9	Unit 5.9: TC: Self-Care (OTC): Sleep Disorders (OTC)	0.5hr	Miller
2/1/21 10:40-12:35 PM –Part 1	5	Active Learning Session 5: Anxiety and Sleep- Wake Patient Case Studies - <i>Quiz</i>	2.0hr (4.0hr workup)	Markowitz, McMahon, Goodin, Miller, Grundmann, McCurdy
2/2/21 8:30-10:25 AM –Part 2				
2/3/21 2-4:30 PM	3-5	Exam 2: Modules 3-5	2.5hr	

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Date	Mod#	Unit Topic	Contact Hours [hr.]^a	Faculty Author
	6	Module 6: Epilepsy	11.5hr	
	6.1	Introduction to Epilepsy	.25	Voils/Manasco
	6.2	Unit 6.2: Medicinal chemistry of drugs used in epilepsy	2.0hr	McCurdy
	6.3	Unit 6.3: Pharmacology of drugs used in epilepsy		
		6.3.1 Pharmacology of barbiturates and benzodiazepines for epilepsy	0.6 hr	McMahon
		6.3.2 Pharmacology of other antiepileptic drugs	1.3 hr	Frazier
	6.4	Unit 6.4 Epilepsy		
		6.4.1: Management of Epilepsy	1.0hr	Voils/Manasco
		6.4.2 Read: Driving and Epilepsy – A Review of Important Issues	0.25hr	Voils/Manasco
2/8/21 8:30-10:25 AM	6	Active Learning Session 6 Part 1: <i>Case Studies – In Class Assessment</i>	1.0hr (2.0hr workup)	Manasco, McMahon, McCurdy, Frazier,
	6.5	Unit 6.5: Management of Status Epilepticus	1.0hr	Voils/Manasco
	6.6	Unit 6.6: Management of Epilepsy in pediatrics	2.0hr	Manasco
	6.7	Unit 6.7: TC: Pharmacokinetics - phenytoin, phenobarbital, valproic acid, carbamazepine	0.5hr	Cristofolotti
	6.8	Unit 6.8: TC: Legal & Ethical Issues with Epilepsy patients	0.25hr	Allen
	6.9	Watch: Personalized Medicine for Epilepsy	0.25hr	Wiisanen
2/10/21 8:30-10:25 AM	6	Active Learning Session 6 Part 2: <i>Case Studies – Quiz</i>	1.0hr (2.0hr workup)	Manasco, Cristofolotti, Allen, Wiisanen
	7	Module 7: Other Neuropsychiatric Disorders	8.5hr	
	7.1	Unit 7.1: Etiology and pathophysiology of migraine and ADHD		
	7.1.1	Watch: Etiology and Pathophysiology of migraine	0.375 hr	Liu
	7.1.2	Watch: Etiology and Pathophysiology of ADHD	0.375 hr	Peris

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Date	Mod#	Unit Topic	Contact Hours [hr.]a	Faculty Author
	7.2	Unit 7.2: Medicinal chemistry of drugs used in migraine disorders	0.75hr	McCurdy
	7.3	Unit 7.3: Pharmacology of drugs used in migraine disorders	1.0hr	Liu
	7.4	Unit 7.4: Management of Headache Disorders	1.0hr	Vogel-Anderson
	7.5	Unit 7.5: Medicinal chemistry of drugs used in ADHD	0.5hr	McCurdy
	7.6	Unit 7.6: Pharmacology of drugs used in ADHD	0.5hr	Peris
	7.7	Unit 7.7: Management of Attention Deficit/Hyperactivity Disorder	1.5hr	Markowitz
	7.8	Unit 7.8: TC: Interprofessional - address a situation where there is a team conflict due to varying thoughts on best care for patient	0.5hr	Vogel Anderson
	7.9	Unit 7.9: TC: Patient Reported Outcomes (PROs) and Cost Effective Analysis (CEA) in a neuro disorder covered in this course; total direct medical cost offset assessment; clinical OBCs Lecture & Case	0.5hr	Goodin
2/15/21 10:40-12:35 PM –Part 1	7	Active Learning Session 7: <i>Case Studies - Quiz</i>	2.0hr (4.0hr workup)	Markowitz, McCurdy, Liu, Peris, Goodin, Vogel- Anderson
2/15/21 1:55-3:50 PM –Part 2				
	8	Module 8: Substance Use Disorders and Clinical Toxicology	11.75hr	
	8.1	Unit 8.1: Etiology and Epidemiology of Substance Use Disorders	1.0hr	Borgert
	8.2	Unit 8.2: Pharmacology of Addiction Treatment Including Ethanol	1.0hr	Peris
	8.3	Unit 8.3: Medicinal Chemistry of Addiction Treatment Including Ethanol	1.0hr	Aldrich
	8.4	Unit 8.4: Management of Substance Use Disorders I (Overview of Opioid Addiction and treatment including Methadone, Buprenorphine, Naloxone)	1.0hr	Borgert

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Date	Mod#	Unit Topic	Contact Hours [hr.]^a	Faculty Author
	8.5	Unit 8.5: Management of Substance Use Disorders II (Overview of Depressants, stimulants, and hallucinogens and treatment)	1.0hr	Motycka
	8.6	Unit 8.6: Management of Substance Use Disorders III (Overview of Alcohol, Marijuana, and other abused substances including OTC products and treatment)	1.0hr	Motycka
2/19/21 10:40- 12:35 PM	8	Active Learning Session 8 Part 1: Substance Abuse Patient Case Studies – <i>In Class Assessment</i>	1.0hr (2.0hr workup)	Motycka, Borgert, Peris,
	8.7	Unit 8.7: TC: health-wellness – Tobacco Management and Drug Testing	0.75hr	Motycka
	8.7.1	Watch: Tobacco Management		Motycka
	8.7.2	Watch: Drug Testing		Motycka
	8.8	Unit 8.8: TC: Legal and ethical issues – substance abuse	0.5hr	Allen
	8.9	Unit 8.9: Clinical toxicology - emergencies	2 hr	Sollee
	8.10	Unit 8.10: Personalized Medicine for Brain & Behavior Disorders	0.5hr	Wiisanen
2/22/21 8:30-10:25 AM	8	Active Learning Session 8 Part 2: Substance Abuse Patient Case Studies - <i>Quiz</i>	1.0hr (2.0hr workup)	Motycka, Borgert, Allen, Peris, Sollee
2/24/21 1:55-6 PM	1-8	Capstone	2.0hr (4.0hr workup)	Markowitz, Dietrich, Manasco, Motycka, Peris, Liu
2/26/21 2-4:30 PM	1-8	Final Exam: Modules 1-8 (Comprehensive)	2.5hr	
		Total Contact Hours in Course:	94.00	

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Required Textbooks/Readings

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
 - Previously purchased for PHA5782C
 - Not Available via HSC Library
2. Krinsky DL, Ferreri SP, Hemstreet B, et al. Handbook of Nonprescription Drugs: An Interactive Approach to Self-care. 19th ed. Washington, D.C.: American Pharmacists Association; 2018.
 - Not available via HSC Library
 - Previously purchased for PHA5781 Patient Care I
3. Brunton L. Goodman and Gilman's The Pharmacological Basis of Therapeutics, McGraw-Hill Professional, New York, NY, 13th Edition, 2018. ISBN-13: 978-1259584732; ISBN-10: 1259584739.
 - Available via HSC Library – Access Pharmacy
 - Previously purchased for PHA5782C Patient Care II
4. 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)
 - Previously used for PHA5782C
 - Available via HSC Library – Access Pharmacy
5. Dipiro, J, Talbert R, Yee G, Matzke G, Wells B, Posey L. Pharmacotherapy – A pathophysiologic approach. McGraw-Hill Professional, New York, NY, 10th Edition, 2017. ISBN-13:978-1259587481; ISBN-10:1259587487
 - Available via HSC Library – Access Pharmacy
 - Previously purchased for PHA5782C Patient Care I
6. Primary literature readings will be posted in Canvas.

Use [UF VPN to access UF Libraries Resources](#) when off-campus. The UF HSC library staff can assist you with questions or issues related to accessing online library materials. For assistance contact your College of Pharmacy librarian or visit the [HSC Library Website](http://www.library.health.ufl.edu/) at this URL: <http://www.library.health.ufl.edu/>

Suggested Textbooks/Readings

There are no suggested textbooks for this course.

Other Required Learning Resources

None

Materials & Supplies Fees

None

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Student Evaluation & Grading

Evaluation Methods and How Grades are calculated.

Assessment Item	Grade Percentage
Quizzes [7 @ 2% ea.] *Single lowest score dropped	14%
Capstone Assignment	5%
In Class Assessment (2 @ 3% each)	6%
Graded Cases	5%
Exam 1	20%
Exam 2	20%
Exam 3 [Comprehensive]	30%
Total	100%

Table 1. Grading Scale

Rounding of grades:

Final grades in Canvas will be rounded to the 2nd decimal place. If the decimal is X.495 or higher, Canvas will round the grade to X.50. The above scale depicts this policy and grades are determined accordingly. Grade assignment is made using this policy and **NO EXCEPTIONS** will be made in situations where a student's grade is "close."

Educational Technology Use

The following technology below will be used during the course and the student must have the appropriate technology and software.

1. ExamSoft™ Testing Platform
2. Canvas™ Learning Management System

For technical support, navigate to [Educational Technology and IT Support Contact Information](#) at this URL:

<http://curriculum.pharmacy.ufl.edu/current-students/technical-help/>

Percentage Range	Letter Grade
92.50-100%	A
89.50-92.49%	A-
86.50-89.49%	B+
82.50-86.49%	B
79.50-82.49%	B-
76.50-79.49%	C+
72.50-76.49%	C
69.50-72.49%	C-
66.50-69.49%	D+
62.50-66.49%	D
59.50-62.49%	D-
< 59.50%	E

Pharm.D. Course Policies

The Policies in the following link apply to this course. Review the [Pharm.D. Course Policies](#) carefully, at this URL: <http://curriculum.pharmacy.ufl.edu/current-students/course-policies/>

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Appendix A. Course Directory

Teaching Partnership Leader/Course Director:

Carol Motycka, Pharm.D.

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Office: Jacksonville Campus

Phone: 904-244-9590

Questions to Ask:

- Concerns about performance
- Guidance when there are performance problems (failing grades)
- General questions about content

Instructional Designer:

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Name: Iverta Allen

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Office: Orlando Campus

Questions to Ask:

- Issues related to course policies (absences, make up exams, missed attendance)
- Absence requests (Only the Academic Coordinator handles absence requests)
- Questions about dates, deadlines, meeting place
- Availability of handouts and other course materials
- Assignment directions

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- Questions about grade entries gradebook (missing grades, wrong grade)
- Assistance with ExamSoft® (Distant campus students may contact Education Coordinator for use of SofTest and assistance during exams. The Academic Coordinator is the contact person for issues related to grading and posting of ExamSoft grades.)

Other Teaching Partnership Faculty Members:

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