Sixth 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 during the course involves teamwork. This course focuses on providing patient-centered care to patients who have skin and musculoskeletal disorders. 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

Erin St. Onge, Pharm.D.
- Email: stonge@cop.ufl.edu
- Phone: 407-313-7004
- Office Hours: By appointment ONLY.

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:

1. Collect information to identify a patient’s medication-related problems and health-related needs.
   - ST1.1. Collect a medical history from a patient or caregiver.
2. 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
3. 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
Learning 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:

**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.

**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.

   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. PHA5165L Professional Practice Skills Lab V
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 and Time | Mod# | Unit Topic | Contact Time [hr.]
|---------------|------|------------|------------------|
| 10/29/18      | 1.1  | Unit 1.1: Overview of Dermatology for Pharmacists | 0.00
| 10/29/18      | 1.2  | Unit 1.2: Management of Skin Disorders – Part 1 | 0.00
| 10/30/18      | 1.2.1| Management of Skin Disorders - Eczema | 1.03
| 10/30/18      | 1.2.2| Psoriasis and Seborrhea | 1.12
| 10/30/18      | 1.2.3| Drug-Induced Skin Disorders | 0.65
| 10/31/18      | 1.3.1| Watch: Management of Skin Disorders – Rosacea, Acne Vulgaris | 1.12
| 11/01/18      | 1.3.2| Watch: Management of Skin Disorders – Viral Skin Infections | 0.50
| 11/01/18      | 1.3.3| Watch: Management of Skin Disorders – Fungal and Yeast Skin Infections | 1.00
| 11/01/18      | 1.3.4| Watch: Management of Skin Disorders – Skin Cancers Part 1 | 0.50
| 11/01/18      | 1.3.5| Watch: Management of Skin Disorders – Skin Cancers Part 2 | 0.50
| 11/01/18      | 1.3.6| Watch: Sunscreen Lecture | 0.50
| 11/01/18      | 1.4  | Unit 1.4: Management of Skin Ulcers | 0.00
| 11/05/18      | 1.3- 1.4| Active Learning Session 2: Skin Disorders, Part II (4 hours) | 2.00
| 11/07/18      | 1.3- 1.4| Quiz 2: Skin Disorders-Part II | Cary Mobley
| 11/07/18      | 1.3- 1.4| Exam 1: (2.5 hours) | 2.50
| 11/07/18      | 2    | Module 2: Introduction to Pain and Treatment Options | 0.00
| 11/07/18      | 2.1  | Unit 2.1: Introduction to Pain | 0.00
<p>| | | | |
|               |      |            |                  |</p>
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<tr>
<th>Date and Time</th>
<th>Mod#</th>
<th>Unit Topic</th>
<th>Contact Time [hr.]</th>
<th>Faculty Author</th>
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<tr>
<td>11/07/18</td>
<td>2.1.1</td>
<td>Watch: Definition of Pain; Pain Pathway</td>
<td>0.67</td>
<td>Jay Patrick McLaughlin</td>
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<td>Watch: Introduction to Pain</td>
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<td>Unit 2.2: Introduction to Treatment Options in Pain Management, Part I</td>
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<td>Watch: Non-Pharmacological Management of Chronic Pain</td>
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<td>Robin Moorman Li</td>
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<td>11/08/18</td>
<td>2.2.2.1</td>
<td>Watch: Pharmacology of Non-Opioid Treatment Options: Anti-inflammatories</td>
<td>1.33</td>
<td>Jay Patrick McLaughlin</td>
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<td>11/08/18</td>
<td>2.2.2.2</td>
<td>Watch: Pharmacology of Non-Opioid Treatment Options: Skeletal Muscle Relaxants and Anticonvulsants</td>
<td>1.13</td>
<td>Jay Patrick McLaughlin</td>
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<td>2.2.2.3</td>
<td>Watch: Pharmacology of Non-Opioid Treatments: Antidepressants, local and general anesthetics, and miscellaneous agents</td>
<td>1.35</td>
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<td>2.2.3</td>
<td>Watch: Medicinal Chemistry of Non-Opioid Treatment Options: NSAIDS, Acetaminophen, Skeletal Muscle Relaxants, Common Adjuvant agents.</td>
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<td>Chenglong Li</td>
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<td>11/09/18</td>
<td>2</td>
<td>Active Learning Session 3: Assessment and Management of Nociceptive and Neuropathic Pain (4 hours)</td>
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<td>Chenglong Li, Jay Patrick McLaughlin, Robin Moorman Li</td>
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<td>Quiz 3: Nociceptive and Neuropathic Pain</td>
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<td>Module 3: Assessment &amp; Management of Acute Pain</td>
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<td>Randell E Doty</td>
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<td>Unit 3.1: Introduction to Treatment Options in Pain Management, Part II</td>
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<td>Watch: Pharmacology of Opioids</td>
<td>1.50</td>
<td>Jay Patrick McLaughlin</td>
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<tr>
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<td>3.1.2</td>
<td>Watch: Medicinal Chemistry of Opioids</td>
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<td>Jane V Aldrich</td>
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<td>11/09/18</td>
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<td>Watch: Personalized Medicine in Pain Management</td>
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<td>Larisa Humma Cavallari</td>
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<td>Unit 3.2: Interventions and Treatment of Pain - Developing a Clinical Treatment Plan, Part I</td>
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<td>Watch: General Principles of Acute Pain Management</td>
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<td>Randell E Doty</td>
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<td>11/13/18</td>
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<td>Active Learning Session 4: Assessment and Management of Acute Pain (4 hours)</td>
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<td>Jane V Aldrich, Jay Patrick McLaughlin, Larisa Humma Cavallari, Randell E Doty</td>
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<tr>
<td>11/13/18</td>
<td>3</td>
<td>Quiz 4: Acute Pain Mgmt</td>
<td>0.00</td>
<td>Randell E Doty</td>
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<td>11/13/18</td>
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<td>Wheel of Complications Activity</td>
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<td>Module 4: Assessment &amp; Management of Chronic Pain</td>
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<td>Lecture 1 - Developing a Treatment Plan-Nonopioids and Adjuvants</td>
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<td>Robin Moorman Li</td>
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<tr>
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<td>Lecture 2 - Opioid Considerations-Guidelines and Risk Mitigation</td>
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<td>Lecture 4 - Proper Monitoring, Identification and Treatment of opioid induced side effects and Education</td>
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<td>Transcending Concept: Pain Management: Opioid Agreement (Youtube)</td>
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<td>Teresa Elaine Roane</td>
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<td>Opioid Equianalgesic Calculation Problems (Storyline)</td>
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<td>Opioid Worksheet (Storyline)</td>
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<td>11/16/18 8:30AM-12:30PM</td>
<td>4.1</td>
<td>Active Learning Session 5: Chronic Pain Management (4 hours)</td>
<td>2.00</td>
<td>Bill Allen, Robin Moorman Li, Teresa Elaine Roane</td>
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<td>Quiz 5: Chronic Pain Mgmt</td>
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<td>11/16/19</td>
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<td>ALS5 Submission (Assignment)</td>
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<td>Unit 4.2: Interventions and Treatment of Pain - Developing a Clinical Treatment Plan, Part III</td>
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<td>Pharmacology of Rheumatoid Arthritis</td>
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<td>Elise Carpenter, Eric A Dietrich</td>
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<td>11/16/18</td>
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<td>Medicinal Chemistry of Rheumatoid Arthritis</td>
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<td>Elise Carpenter, Eric A Dietrich</td>
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<td>Developing a Clinical Treatment Plan--Rheumatoid Arthritis</td>
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<td>Transcending Concept: Pharmacy budget impact models--drug costs vs. medical cost offsets</td>
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<td>11/16/19</td>
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<td>Pharmacotherapy of Chronic Pain Management-Osteoarthritis</td>
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<td>Robin Moorman Li</td>
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<td>11/20/18 2:00PM-4:30PM</td>
<td>2.1-4.1</td>
<td>Exam 2 (2.5 hours)</td>
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<td>Erin Lyn St Onge</td>
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<td>Unit 4.3: Chronic Pain Management</td>
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<td>11/20/18</td>
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<td>Watch: Chronic Pain Management - Gout</td>
<td>0.83</td>
<td>Christina DeRemer, Divita Singh</td>
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<td>11/20/18</td>
<td>4.3.2</td>
<td>Watch: Chronic Pain Management – Bone and Joint Infections</td>
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<td>Veena Venugopalan</td>
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<td>Chronic Pain Management Fibromyalgia</td>
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<td>Watch: Comparative Effectiveness Studies</td>
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<td>Joshua D Brown</td>
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<td>Watch: Patient-reported outcomes for chronic pain</td>
<td>0.27</td>
<td>Joshua D Brown</td>
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### Date and Time

**11/26/18**
- **8:30AM-12:30PM**

**Unit Topic:**
- Active Learning Session 6: Management of RA, Gout, and Joint Infections (4 hours)

**Contact Time [hr.]**
- 2.00

**Faculty Author:**
- Christina DeRemer, Divita Singh, Elise Carpenter, Eric A Dietrich, Joshua D Brown, Robert P Navarro, Robin Moorman Li, Veena Venugopalan

**11/26/18**
- **4.2-4.4**

**Unit Topic:** Quiz 6: Mgmt of RA, Gout & Joint Infections

**Contact Time [hr.]**
- 0.00

**Faculty Author:** Divita Singh

**11/27/18**
- **8:30AM-12:30PM**

**Unit Topic:** Capstone: Pain Management (4 hours)

**Contact Time [hr.]**
- 2.00

**Faculty Author:**
- Bill Allen, Chenglong Li, Divita Singh, Elise Carpenter, Eric A Dietrich, Jane V Aldrich, Jay Patrick McLaughlin, Joshua D Brown, Larisa Humma Cavalli, Randell E Doty, Robert P Navarro, Robin Moorman Li, Teresa Elaine Roane, Veena Venugopalan

**11/30/18**
- **2-4**

**Unit Topic:** Final Exam: Modules 2-4 (2.5 hours)

**Contact Time [hr.]**
- 0.00

**Faculty Author:** Erin Lyn St Onge

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### Required Textbooks/Readings

There are no required textbooks for this course.

### Suggested Textbooks/Readings

   - Previously purchased for PHA5782C
   - Not Available via HSC Library

   - Previously purchased for PHA5781
   - Not Available via HSC Library
   - Previously used for PHA5782C
   - Available via HSC Library – Access Pharmacy
   - Previously used for PHA5782C
   - Available via HSC Library – Access Pharmacy

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 at this URL: http://www.library.health.ufl.edu/

Other Required Learning Resources

None

Materials & Supplies Fees

None

Student Evaluation & Grading

Table 1. Evaluation Methods and How Grades are calculated.

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<th>Assessment Item</th>
<th>Grade Percentage</th>
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<tr>
<td>Quizzes (n=6 @ 4% ea.)—followed by 3 min secured review.</td>
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<td>ALS 1 Submission (n=1)</td>
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<td>ALS 5 submission (n=1)</td>
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<td>Exam 1</td>
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<td>Exam 2</td>
<td>22%</td>
</tr>
<tr>
<td>Final Exam--Comprehensive for Pain Modules ONLY</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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Rounding of grades:
Final grades in Canvas will be rounded to the 2\textsuperscript{nd} 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 \textbf{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 \url{Educational Technology and IT Support Contact Information} at this URL: http://curriculum.pharmacy.ufl.edu/current-students/technical-help/

<table>
<thead>
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<td>&lt; 59.50%</td>
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Pharm.D. Course Policies
The Policies in the following link apply to this course. Review the \url{Pharm.D. Course Policies} carefully, at this URL: http://curriculum.pharmacy.ufl.edu/current-students/course-policies/
Appendix A. Course Directory

Teaching Partnership Leader/Course Director:

Erin St. Onge, Pharm.D.
Email: stonge@cop.ufl.edu
Office: ORL
Phone: 407-313-7004
Office Hours: By appointment ONLY.

Questions to Ask:

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

Instructional Designer: Shane Ryan, Med
Email: shane.ryan@ufl.edu
Office: HPNP 4309
Phone: 352-294-5215

Academic Coordinator: Name: Timothy Stevens
Email: tstevens1@cop.ufl.edu
Office: HPNP 4312
Phone: 352-273-6312

Educational Coordinators:

Name: McKenzie Wallen
Email: mwallen@cop.ufl.edu
Office: Jacksonville Campus

Name: Victoria Lohrman
Email: vsavosh@cop.ufl.edu
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
- 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:

Jane Aldrich, Ph.D.
- EMAIL: jaldrich@cop.ufl.edu
- PHONE: 352-273-8708

William L. Allen, JD, MDiv
- EMAIL: wmallen@ufl.edu
- PHONE: 352-273-5155

Joshua Brown, PharmD, PhD
- EMAIL: Joshua.brown@ufl.edu
- PHONE: (352) 294-8593

William Cary Mobley, Ph.D.
- EMAIL: mobley@cop.ufl.edu
- PHONE: 352-273-6282

Larisa H. Cavallari, Pharm.D.
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- PHONE: 352-273-8245

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- PHONE: 352-273-6224

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- PHONE: 352-294-5648

Chenglong Li, Ph.D.
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- PHONE: 352-294-8510

Randell E. Doty, Pharm.D.
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- PHONE: 352-294-4984

Jay McLaughlin, Ph.D.
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- PHONE: 352-273-7207

Robin Moorman Li, Pharm.D., BCACP
- EMAIL: moorman@cop.ufl.edu
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