Course Purpose:
This course is designed to provide you with an opportunity to learn and practice important pharmaceutical compounding techniques used in optimizing a patient’s drug therapy. This course will utilize a problem based/interactive instructional approach, traditional lectures, and problem solving exercises to provide you with knowledge, skills and attitude used for the extemporaneous preparation of a variety of dosage forms. This course will reinforce concepts of various pharmaceutical compounding techniques from didactic course principles to real world problem-based settings.

Course Faculty and Office Hours

Course Coordinator:
Dr. Anthony Palmieri III
Email: Palmieri@cop.ufl.edu Office: P4-31, MSB
Phone: 352-273-7868

Co-Coordinator: [Include only if there is a co-coordinator]
A list of facilitators and their contact information will be provided during the first week of class

Office Hours
By appointment

Place and Time of Class Sessions
G101 HPNP live lectures 11:45-1:30pm, unless announced prior to the scheduled lecture time.

Each campus will determine the times that the laboratory is open. In Gainesville it will be Monday and Wednesday 3-5pm. The first lab will be March 6, 2013.

How This Course Relates to the Learning Outcomes You Will Achieve in the Pharm.D. Program:
This course prepares the Pharm.D. student to accomplish the following abilities and the related Student Learning Outcomes (SLOs) upon graduation:
1. Provide Patient-centered Care - Specifically: Design, implement, monitor, evaluate, and adjust pharmacy care plans that are patient-specific; address health literacy, cultural diversity, and behavioral psychosocial issues; are evidence-based and accomplished in collaboration with other health professionals. (SLOs 1.1 and 1.2 – Foundational)

2. Use pharmacy knowledge in the care of patients and resolution of practice problems. (SLOs 6.1 and 6.2)

3. Solve complex practice problems (both patient-specific and general practice) using an evidence-based approach, other aspects of good clinical science, and informatics. (SLO 8.1)

Course Objectives

Upon completion of this course, the student will:

1. Apply relevant standards of practice (including USP guidelines, FDA regulations, and ethical guidelines) to prepare safe and effective dosage forms.
2. Identify the most appropriate resources for information concerning accurate and standardized preparation of extemporaneous products.
3. Identify physical and chemical incompatibilities among active and inactive pharmaceutical ingredients of a formulation. Also, recommend how to avoid incompatibilities and unwanted interactions.
4. Explain how to design and maintain an adequate operational facility for compounding extemporaneous products.
5. Apply relevant stands of practice (including USP guidelines, FDA regulations, and ethical guidelines) to prepare extemporaneous pharmaceutical products.
6. Contrast compounding with pharmaceutical manufacturing and explain why manufacturers do not make products that are requested for compounding.
7. Explain why a products should not be compounded if it is already available for manufacturing.

Pre-Requisite Knowledge and Skills

Successful completion of other pharmaceutics classes
Course Structure & Outline

Course Structure.

a) Learning activities are live in Gainesville and video lectures. For other campuses students are required to come to their respective campus for laboratory

<table>
<thead>
<tr>
<th>Lecture Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 06</td>
<td>Introduction/ History/Compounding Methods</td>
</tr>
<tr>
<td>March 13</td>
<td>The stuff that goes into compounding</td>
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<tr>
<td>March 20</td>
<td>HRT</td>
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<tr>
<td>March 27</td>
<td>Vet Compounding</td>
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<tr>
<td>April 3</td>
<td>Patient Specific considerations</td>
</tr>
<tr>
<td>April 10</td>
<td>Rectal Dosage forms</td>
</tr>
<tr>
<td>April 17</td>
<td>Calculations</td>
</tr>
<tr>
<td>April 24</td>
<td>To Be Determined</td>
</tr>
</tbody>
</table>

Textbooks

Active Learning Requirements

Laboratory

Student Evaluation & Grading

Evaluation Methods

General Class Conduct
In the lab you are expected to wear a lab jacket, shoes (NO sandals) and safety glasses. If you are not dressed appropriately you will be asked to leave. Lab attendance is required, lectures may be viewed online.

**Grading**
The final course grade will be based on the following.
Completion of the 8 compounded products and work sheets and facilitator evaluations  (100%)

**Makeup labs are available.**
If you have a disability that will require extra time and/or procedures related to the course activity please register with the Office for Disabled Student Affairs (205 Peabody Hall, 352-392-1261) and provide written documentation at the beginning of the class.

**Academic Dishonesty**
You are expected to maintain the academic honesty standards of the college of pharmacy. The academic dishonesty guidelines in the Student-Faculty hand book will be followed.

Note: The facilitators can establish guidelines for labs and students activity at the various campuses. The lab facilitators are in charge of the labs and should be contacted for questions about the lab. Dr. Palmieri will be in charge of the lecture component of the class and of the Gainesville Lab campus.

Each campus will decide how many lab sessions to have and how to complete the pharmaceutical preparations.

Please do not wait until the end to do the lab exercises.

**Grading Scale**

- 90-100% A
- 85-89 B+
- 80-84 B
- 75-79 C+
- 70-75 C
- <70 E
Class Attendance Policy

Attendance is not required in lectures but required in the laboratory

Quiz/Exam Policy

N/A

Make-up Quiz/Exam Policy

N/A

Policy on Old Quizzes and Assignments

The student should not access previous student’s files

Assignment Deadlines

You are expected to leave the lab on time and be finished with the assignments by April 24

General College of Pharmacy Course Policies

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

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

Please see the following URL for this information:

Complaints

Should you have any complaints with your experience in this course please visit:
http://www.distancelearning.ufl.edu/student-complaints to submit a complaint.