Course Purpose:
This course is intended to expand upon the pharmacy student’s knowledge of HIV treatment received in the pharmacotherapy series. The student will be able to recommend and monitor antiretroviral therapy for patients who are treatment-naïve as well as those with treatment experience. Additionally, the student will develop confidence in managing individuals with occupational, non-occupational and perinatal exposure. These skills will be developed by viewing taped lectures and reading primary literature/guidelines in conjunction with on-campus patient case discussions.

Course Faculty and Office Hours

Co-Coordinators:
Lisa D. Inge, Pharm.D. BCPS, BCACP, AAHIVP
Email: inge@cop.ufl.edu
Office: (904) 244-9590
Cell: (904) 704-8107

Emily Huesgen, PharmD, AAHIVP
Email: ehuesgen@ufl.edu
Office: (352) 273-7845
Cell: (812) 369-6137

Campus Facilitators and Class Sessions:

<table>
<thead>
<tr>
<th>Campus</th>
<th>Facilitator</th>
<th>Recitation Section</th>
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| Gainesville| Emily Huesgen, PharmD, AAHIVP | Mondays: 5:00-7:00 PM
|            | ehuesgen@ufl.edu             | Room: HPNP 1404
|            |                              | (Except on 3/11 & 4/1
|            |                              | Room: HPNP G-103) |
| Jacksonville| Marjohn Armoon, PharmD       | Wednesdays: 5:30-7:00 PM
|            | marjohn@ufl.edu              | (Except on 03/28, Thursday
|            |                              | 5:30-7:30PM)
|            |                              | Room: BLUE
|            |                              | (Except on 03/28, Room:
|            |                              | COLEMAN) |
Office Hours: Available by appointment

Place and Time of Class Sessions:
Please refer to the above table or your respective campus calendar.

Relation to the Pharm.D. Programmatic Outcome:
Expansion of HIV and infectious disease knowledge and skills gained in Microbiology, Pharmacotherapy III and Pharmacotherapy V. Further information may be found on the College of Pharmacy Website.

Course Goals:
Students will be able to recommend and monitor therapy for both treatment-naïve and treatment-experienced patients. Additionally, students will develop confidence in the management of occupational, non-occupational and perinatal exposure and timelines of such therapeutic interventions.

Course Objectives:
- Describe the pathophysiology of HIV infection
- Explain the difference between a diagnosis of Human Immunodeficiency Virus (HIV) infection and Acquired Immunodeficiency Syndrome (AIDS)
- Identify the criteria for use of antiretroviral therapy in treatment-naïve patients
- List the ‘preferred’ and ‘alternative’ HIV regimens recommended for use in treatment-naïve patients.
- Identify patient scenarios for when an ‘alternative’ antiretroviral regimen might be recommended over a preferred regimen
- Construct an appropriate treatment regimen taking into account specific indications or contraindications for particular medications in both treatment-naïve and treatment-experienced patients
- Identify specific monitoring parameters for each drug regimen
- Assess current antiretroviral therapy for efficacy and toxicity
- Recommend solutions for any drug-induced problem or toxicity
- Determine when renal and/or hepatic dose adjustments are appropriate
- Recognize food requirements for each antiretroviral medication and explain how the food requirement can affect drug concentrations
- Identify and manage common drug-drug interactions as well as drug-food interactions (If we don’t, then who will?)
- Identify which antiretrovirals are CYP P450 inducers or inhibitors
- Recommend appropriate therapy for the treatment of opportunistic infections
• Determine which patients will need primary and secondary prophylaxis for opportunistic infections (when to start/when to stop therapy)
• Describe the types of resistance testing available and proper utilization
• Interpret resistance test results for the purpose of appropriate drug selection
• Identify the criteria for use of antiretroviral medications in pregnancy, pediatric populations, and post-exposure prophylaxis
• List the recommended HAART options for pregnancy
• Identify antiretroviral drug options for use in pediatric patients and recommend appropriate dosing
• Recognize appropriate therapy for use as pre & post-exposure prophylaxis
• Counsel patients and other healthcare providers on medication side effects
• Identify pharmacokinetic parameters needed to achieve pharmacodynamic goals
• Describe different methods for improving medication adherence

Prerequisite: Passing PHA 5783

Course Structure:
Lectures followed by guided discussions and readings on the treatment of multiple patient populations who have acquired or have been exposed to HIV. There will be 7 topic sections, one for each week of the course plus a midterm and final exam. The taped lectures along with other videotaped assignments will assist in explaining guidelines and current recommendations. However, students will be expected to read the required material in order to become familiar with this reference for case discussions. The material presented in each module will be a building block for future modules.

Required Materials
• Guidelines for the Use of Antiretroviral Agents in HIV-1 Infected Adults and Adolescents (Updated 2/12/13).
• Available at: http://aidsinfo.nih.gov/guidelines

Recommended Materials:
• Guidelines for Prevention and Treatment of Opportunistic Infections in HIV-Infected Adults and Adolescents. Available at: http://aidsinfo.nih.gov/guidelines
• Students should get in the habit of using tertiary resources (e.g. Clinical Pharmacology) to check for potential drug-interactions when doing a patient case just as you would in practice.

Active Learning Requirements:
Students will be asked to apply the material presented in the taped lectures each week. This application will require the student to prepare a patient case prior to attending and participating in a 2 hour on-campus class discussion with a local pharmacist who has HIV expertise.
### Student Evaluation and Grading

<table>
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<tr>
<th>Evaluation Technique</th>
<th>Points Possible</th>
<th>Percent of Final Grade</th>
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<tbody>
<tr>
<td>Cases (weekly)</td>
<td>100</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes (weekly)</td>
<td>50</td>
<td>10%</td>
</tr>
<tr>
<td>Attendance/Class Exercises</td>
<td>100</td>
<td>20%</td>
</tr>
<tr>
<td>SOAP Note</td>
<td>50</td>
<td>10%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>75</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>125</td>
<td>25%</td>
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**Total Points: 500**

**Cases (20%):**
There will be 5 weekly cases (20 pts/each). The purpose of this assignment is to apply the student’s knowledge to “real world” scenarios. Each patient case will be posted on Sakai one week prior to class with an assigned reading listed and will cover material from the previous lecture. **Cases should be submitted to your campus facilitator electronically using Sakai and are due 2 hours prior to the start of class** (refer to pages 1-2 for class times and location). Students will be asked to keep copies of all their prior weekly cases. They may refer back to these each week as the course progresses on.

**Quizzes (10%):**
There will be 5 weekly quizzes (10 pts/each). The quizzes will be administered at the beginning of class for the first 10-15 minutes. The material covered on the quizzes will be cumulative, but the primary focus will be on material covered in the previous lecture. Format may include short answer, multiple choice, or true/false questions. **Basic calculators (four function) MAY be used during the quizzes. Use of a single calculator by more than one student is NOT allowed. Use of a programmable calculator is NOT allowed.**

**Attendance/Class Exercises (20%):**
Students will meet for class discussion once a week for 2 hours. Following the quiz, the students and campus facilitator will go over the answers to the case that was due prior to the start of class. The purpose of the class sessions is to facilitate “active learning” through group discussions. The class discussions will cover an in depth review of the patient case, important topics from lecture, clinical pearls, and any student questions. In addition, class exercises may be distributed to facilitate “real world patient scenarios.” Students will improve their HIV knowledge and clinical skills by “actively” working through class exercises and participating in class discussions. There will be 7 class sections (10 points/class). Students are expected to attend and participate in each class session. Points will be given for attendance and participation that day as well as any class exercises distributed. Ten points will be given for attending the exams in addition to 10 points (free) during week 8 in preparation for the final exam (100 points).
Students who miss a class discussion or quiz due to illness, family emergency, death in the family, or any other unforeseen event should personally report this to the campus facilitator PRIOR to class. Please note that this information may be transmitted ONLY by the affected student. Any such communication from anyone other than the affected student will be unacceptable. Appropriate and verifiable documentation of the need to miss class discussion or a quiz will be required. An unexcused absence will result in a zero for that day.

**SOAP Note (10%)**
The purpose of the SOAP note is to provide students with practice communicating patient information and progress in the form of a concise chart note. Students will identify pertinent subjective and objective information, which will be used to formulate an assessment and treatment plan. The SOAP note is worth 50 points and will be due on 4/15 at 11:59 PM. Students will submit their SOAP note electronically on the course website.

**Exams (40% - Midterm-15%, Final-25%)**
The midterm exam will be worth 75 points and the final exam will be worth 125 points. Both exams will be based on key points mentioned in lectures, class discussions, and assigned readings. **Students may bring a basic calculator (four function) for use during the exams. Use of a programmable calculator is NOT allowed. Use of a single calculator by more than one student is NOT allowed.** No exams will be returned, but are available for supervised review upon request.

**Grading:**

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<tr>
<th>Grade</th>
<th>Points</th>
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<tr>
<td>A</td>
<td>100-93</td>
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<tr>
<td>A-</td>
<td>92-90</td>
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<td>B+</td>
<td>89-87</td>
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<td>B</td>
<td>86-83</td>
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<td>B-</td>
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<td>C+</td>
<td>79-77</td>
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<td>C</td>
<td>76-70</td>
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*Passing will be considered a grade of 70%*

**Exam Policy:**  
**Lateness For An Exam**
Students arriving late for an examination may take the exam if NO other student has completed the examination and left the examination room. Once any students has completed the examination and has left the room, NO late arriving student may take the examination.

**Calculators**
Basic calculators (four function) **MAY** be used during the quizzes. Use of a single calculator by more than one student is **NOT** allowed. Use of a programmable calculator is **NOT** allowed.
Questions During An Examination
Per College of Pharmacy policy, NO questions will be answered during an examination.

Missing An Exam
Students who miss a scheduled exam due to unforeseeable circumstances, such as illness, family emergency, or death in the family (note that circumstances other than these will be evaluated on an individual basis but notification PRIOR to the exam is still required) should personally report this to Dr. Huesgen PRIOR to administration of the exam. This information may NOT be transmitted to any course coordinator by anyone other than the student him/herself. Any such communication from anyone other than the affected student will be unacceptable. Appropriate and verifiable documentation of the need to miss the exam will be required. Failure to notify Dr. Huesgen of an absence PRIOR to an exam and/or provide appropriate documentation will result in the student receiving a zero for that exam. Of note: exams will only be given on the dates scheduled; in other words, exams will not be given early to allow students to be absent on scheduled exam dates.

Make-Up Quiz & Exam Policy:
Make-up quizzes or exams will only be given IF the student complied with the above criteria. Make-ups will need to be completed within 1 week of the original date given.

Policy on Old Quizzes and Assignments:
Exams and assignments will NOT be returned to the students.

Assignment Deadlines:
Please refer to the course schedule.

General College of Pharmacy Course Policies:
For information regarding the UF Grading Policy, the Academic Integrity Policy, the Psychomotor and Learning Expectations, Faculty and Course Evaluations, Expectations of Students, Discussion Board policies, the UF Policy on Religious Holidays, and the Counseling and Student Health Center can be found at the following URL:
Appendix A: Directions for Contacting Faculty & Facilitators

Course Website

The PHA5841 course website will be maintained through Sakai at: http://Iss.at.ufl.edu. You will be able to access course announcements, course information, supplemental documents and grades through this website. Students are expected to check the course website regularly (daily) for updated information. Whenever possible, course coordinators will post announcements when significant information is added to the website.

Course Communication

All course communication will occur during class sessions, discussion boards on the course website, and by announcement postings. Discussion threads will be organized topically and will be created for general course issues and specific topics. If you have a question, please post it to the appropriate discussion board. The course coordinators will check the discussion boards and respond to the question as promptly as possible. Please keep in mind the following guidelines regarding discussion board postings:

1. Please keep all communication and requests **professional**. Avoid sarcastic, negative, or insulting postings, or judging questions of others.
2. Please check recent discussion board posts and announcements before posting your message to ensure that someone else has not already asked the same question, or that it has not been addressed in an announcement.
3. Anonymous postings are not allowed.
4. Responses may come from course coordinators or lecturers. Please keep this in mind so that you are able to recognize a response from an instructor.

Co-Coordinators

Lisa D. Inge, Pharm.D. BCPS, BCACP, AAHIVP  
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Clinical Assistant Professor  
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Cell: (812) 369-6137
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<td>Email: <a href="mailto:ehuesgen@ufl.edu">ehuesgen@ufl.edu</a></td>
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<td>Office: (352) 273-7845</td>
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<tr>
<td>Jacksonville</td>
<td>Marjohn Armoon, PharmD</td>
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<td>PGY1 Pharmacy Resident</td>
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<td>Medimix Specialty Pharmacy</td>
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<td>Email: <a href="mailto:marjohn@ufl.edu">marjohn@ufl.edu</a></td>
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<tr>
<td>Orlando</td>
<td>Lisa Vandervoort, PharmD</td>
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<td>Office: (407) 313-7031</td>
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<tr>
<td>St. Petersburg</td>
<td>Jamie Kisgen, PharmD, BCPS</td>
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<td>Office: (727) 394-6213</td>
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