SYLLABUS for PHR 183F
Basic Intravenous Admixtures Lecture
FALL SEMESTER 2015
Unique # 58390, 58395, 58400, 58405
Thursdays 11:30 AM – 12:30 PM (Central time): PHR 3.106
ITV to: UTHSCSA, UTEP, and UTRGV

Course Description: Basic Intravenous Admixtures (PHR 183F) – Lecture

This course describes the theory, preparation, and use and route of administration of sterile products. Mathematical, clinical, and use of drug information will also be reviewed.

Instructor: Holli Temple, PharmD, BCPS, CGP
Office: PHR 2.222E
Office Phone: 512-232-1214
E-mail: holli.temple@austin.utexas.edu
Office Hours: By appointment

Other Faculty: James P. Wilson, PharmD, PhD
Office: PHR 3.210A
Office Phone: 512-471-6978
E-mail: james.wilson@austin.utexas.edu
Office Hours: By appointment

J. Nile Barnes, PharmD, BCPS
Office: PHR 2.222
E-mail: jnbarnes@austin.utexas.edu
Office Hours: By appointment

El Paso Coordinator: Jose O. Rivera, PharmD
Office Phone: 915-747-8535
Email: jrivera@utep.edu

Rio Grande Valley Coordinators:
Bianca Cruz, PharmD, BCPS
Office Phone: 956-665-3761
Email: bianca.cruz@utrgv.edu

Daniela Bazan, PharmD
Email: daniela.bazan@utrgv.edu

San Antonio Coordinators: Beth Perz, MS, PharmD, BCPS
Email: perz@uthscsca.edu

Kelly Reveles, PharmD, PhD
Email: kDaniels46@utexas.edu
Austin Teaching Assistants:

San Antonio Teaching Assistants:

Course Prerequisites: PHR 156P

Course Co-requisites: PHR 183F and PHR 183G or previous successful completion of PHR 183F or PHR 183G


Grading Criteria:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>38.5% (100 points)</td>
</tr>
<tr>
<td>Exam 2</td>
<td>38.5% (100 points)</td>
</tr>
<tr>
<td>Math Quiz</td>
<td>11.5% (30 points)</td>
</tr>
<tr>
<td>Daily Quiz</td>
<td>11.5%</td>
</tr>
</tbody>
</table>

Grading Scale:

- 93% - 100% = A
- 90% - 92% = A-
- 87% - 89% = B+
- 83% - 86% = B
- 80% - 82% = B-
- 77% - 79% = C+
- 73% - 76% = C
- 70% - 72% = C-
- 69% - 68% = D+
- 67% - 66% = D
- Below 65% = F

Exams:
Exams will cover learning objectives given at the beginning of each topic. Format will include: multiple choice, multiple/multiple choice, true/false, fill in the blank, matching, and/or short answer questions.

Make-up exams will be administered only in the case of verifiable emergency or serious illness or other excused absence approved in advance by the faculty through student submission of the “Student Request for Alternative Examination Time” form. Format of make-up exams may vary from the original exam, and is usually comprised of short-answer or essay questions. No quiz or exam grades will be dropped. For approved absences from exams, the student has one week from the day of the exam to make up the exam unless prior arrangements have been made with the local coordinator. If the test is not made up within the specified time period, a zero will be given.
Unexcused absences from exams will result in a grade of zero for the exam. Late arrival for exams (15 minutes after the beginning of the exam or after any students have left the room, whichever comes first) will not be permitted; a grade of zero will be given unless a verifiable emergency has caused the late arrival.

Students will not be permitted to leave the room and return once an exam has started unless it is a verifiable emergency. Please take a restroom break before the exam begins. Any other items that might be needed during an exam, such as tissues or water, should be brought into the exam room with the student.

Students in El Paso, the Rio Grande Valley, and San Antonio will return their original exam for grading. The decision of whether or not to use scantrons for exams is at the discretion of the local course coordinators. Austin students will return their original exam and their scantron for grading. Grading of exam scantrons by the Measurement and Evaluation Center, along with statistical analysis and review of exam questions, will be the responsibility of the instructor, who may choose to grant credit for statistically poor questions.

After this process is finalized, students will be given the opportunity to review their exam during class. Students who choose to do so may submit written reconsideration requests accompanied by valid documentation to the course coordinator via email within 24 hours of the exam review. All reconsideration requests will be reviewed by the instructor responsible for the question, who will determine whether to give full credit, partial credit or no credit. Students will receive information regarding their reconsideration request via email from the course coordinator. This process may take up to one week.

Original exams will be numbered and retained by the instructor. Failure to return the original exam will result in a grade of zero for the exam.

Exams may not be photocopied, photographed or otherwise reproduced. If a student is found to be copying the exam contents in any format, they will receive a zero for the exam and referred to Student Judicial Services.

The last examination will not be cumulative. It will cover material presented after the first exam and calculations utilizing the material covered in the total course. Old examinations are not available.

Alternate Examination Location Policy: Examinations are to be taken at your assigned campus. If you wish to take an exam at a location other than your assigned campus, you must e-mail the course coordinator with a request to take the examination at an alternate campus. The request must be submitted to the course coordinator at least **TWO WEEKS** prior to the examination. The coordinator will review requests on a case-by-case basis and respond at least a week before the exam.

The request should include: assigned location, date of exam, desired location and reason for making the request.
Qualified Students with Disabilities: The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259, http://www.utexas.edu/diversity/ddce/ssd/. It is the student’s responsibility to inform faculty at the beginning of each semester to arrange for appropriate accommodations when necessary.

Attendance: It is your responsibility to attend class and conduct yourself in a manner respectful to both faculty and fellow students in the classroom. If you miss a class for any reason, you will be held responsible for all material covered and announcements made in your absence. Attendance will be taken at the beginning of each lecture. Austin attendance will be taken via a sign in sheet. El Paso, Rio Grande Valley, and San Antonio attendance will be taken via roll call.

If you are absent from lecture, you are responsible for watching the lecture prior to attending your next scheduled laboratory section. Lectures will be taped and videostreamed in Canvas.

Religious Holy Days: By UT Austin policy, you must notify the instructor of your pending absence at least fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

Course Website and Communications: Accessible only to students registered in the course via Canvas at canvas.utexas.edu. UTEID and password required. Canvas will contain copies of PowerPoint slide presentations, learning objectives, case studies, readings, the course syllabus, and other course materials. The Canvas listserv is the official method for the faculty to communicate with students in this course; please keep your email address on the UT computer mainframe current at all times. Canvas will be used to distribute course materials, to communicate and collaborate online, and to post grades. You can find support in using Canvas at the ITS Help Desk at 475-9400, Monday through Friday, 8 AM – 6 PM, so plan accordingly.

Please make sure to set your Canvas settings such that you receive emails and announcement notifications in a timely manner. The student is responsible for accessing and reading any announcement that is posted in Canvas.

Use of E-Mail for Official Correspondence to Students: E-mail is recognized as an official mode of university correspondence; therefore, you are responsible for reading your e-mail for university and course-related information and announcements. You are responsible to keep the university informed about changes to your e-mail address. You should check your e-mail regularly and frequently—I recommend daily—to stay current with university-related communications, some of which may be time-critical. You can find UT Austin’s policies and instructions for updating your e-mail address at http://www.utexas.edu/its/help/utmail/1564.
Lecture Notes: Course materials will be posted in Canvas at least 24 hours before each lecture. It is the student’s responsibility to print out the notes if a hard copy is desired.

Permission to Miss Class for Attendance at Professional Meetings: It is the student’s responsibility to ASK permission IN ADVANCE if he/she plans to attend a professional meeting, which would necessitate missing an exam, assignment, etc. It is at the discretion of the instructor as to whether to grant permission and allow the student to make up any missed work.

Cell/Smart Phones and Laptops:
- Cell- phones should never be heard during class. Out of respect to others in the class, including the instructor, silence phones or turn them off prior to the beginning of class.
- Cell phones should not be used during class. Sending or reading text messages during class or lab is unacceptable.
- Sending or reading emails during class or lab is unacceptable.
- Laptops may be used during class for taking notes.
- Using your laptop for activities other than taking notes causes a disruption to the classroom environment to those around you.
- Penalties for misuse are at the discretion of the instructor.

Redistribution of Class Recordings: Our classroom is equipped with a lecture recording system. These recordings are made available by the University of Texas, and are intended solely for the purpose of review by students currently enrolled in this class. Students utilizing class recordings should be careful to not compromise the privacy of either themselves or other users (http://registrar.utexas.edu/students/records/ferpa). Any additional distribution of University- or student-generated recordings (regardless of format) is prohibited without the written and signed permission of the presenter and all students identifiable on the recording.

Please remember that this service is offered to supplement (not replace) lecture attendance. An issue might arise that could prevent material from being made available in a timely fashion or at all. Although every effort will be taken to keep the system running, UT does not guarantee the availability of these recordings. Attending class is the only way to insure your viewing of the professor's presentation.

University of Texas Honor Code: The core values of The University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the university is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community. The University’s Honor Code can be found at: http://registrar.utexas.edu/catalogs/gi09-10/ch01/index.html.

College of Pharmacy Honor Code: Students are also expected to uphold the University of Texas College of Pharmacy Honor Code, which may be located for your review at http://www.utexas.edu/pharmacy/students/handbook98/3code.html. Students are expected to uphold the principles of the honor code.
Scholastic Dishonesty:   Students are expected to work independently on examinations. Any student engaging in academic dishonesty will be given an appropriate penalty, including possible failure of the course. Any case of academic dishonesty will be reported to the Dean’s Office of the College of Pharmacy and to the University Dean of Students, as per University regulations.

Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. Also, you should refer to the Student Judicial Services website at http://www.utexas.edu/depts/dos/sjs/ to assess the official University policies and procedures on scholastic dishonesty as well as further elaboration on what constitutes scholastic dishonesty.

Common examples of scholastic dishonesty include, but are not limited to, the following:

1. Looking at and copying answers from another student’s exam or quiz paper.
2. The use of crib notes or crib sheets.
3. Writing information for testing purposes on concealed paper, desks, skin, clothing or other material.
4. Stealing copies of the exam.
5. Changing answers after the exam period is completed.
6. Use of programmable calculators of computers for concealing information.
7. Talking to another student during an exam or quiz.
8. Any other act which gives a student an unfair advantage on an exam or quiz as compared with classmates.

Emergency Evacuation Policy: Occupants of buildings on the UT Austin campus are required to evacuate and assemble outside when a fire alarm is activated or an announcement is made. Please be aware of the following policies regarding evacuation:
Familiarize yourself with all exit doors of the classroom and the building. Remember that the nearest exit door may not be the one you used when you entered the building.

If you require assistance to evacuate, inform me in writing during the first week of class. In the event of an evacuation, follow my instructions or those of class instructors. Do not re-enter a building unless you are given instructions by the Austin Fire Department, the UT Austin Police Department, or the Fire Prevention Services office.

Behavior Concerns Advice Line (BCAL): If you are worried about someone who is acting differently, you may use the Behavior Concerns Advice Line to discuss by phone your concerns about another individual’s behavior. This service is provided through a partnership among the Office of the Dean of Students, the Counseling and Mental Health Center (CMHC), the Employee Assistance Program (EAP), and The University of Texas Police Department (UTPD). Call 512-232-5050 or visit http://www.utexas.edu/safety/bcal
## TENTATIVE LECTURE/PRE-LAB/LAB SCHEDULE
### PHR 183F AND PHR 183G

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 August</td>
<td>Course Introduction</td>
</tr>
<tr>
<td>1 September</td>
<td>Introduction to Basic Intravenous Admixtures</td>
</tr>
<tr>
<td>3 September</td>
<td>(continued)</td>
</tr>
<tr>
<td>8 September</td>
<td>Sterile Product Containers and IV Therapy</td>
</tr>
<tr>
<td>10 September</td>
<td>Math Quiz, Sterile Product Containers and IV Therapy continued</td>
</tr>
<tr>
<td>15 September</td>
<td>PreLab for Lab 1 (Hood Cleaning, Handwashing)</td>
</tr>
<tr>
<td></td>
<td>Lab 1 (September 15 - 17)</td>
</tr>
</tbody>
</table>
| 17 September| Laminar Air Flow Hoods/Isolators and Techniques \  
**James P. Wilson, PharmD, PhD**               |
| 22 September| PreLab for Lab 2                                                                                                                        |
|            | Lab 2 (September 22 – September 24)                                                                                                    |
| 24 September| Introduction to References                                                                                                              |
| 29 September| (continued)                                                                                                                             |
|            | Lab 3 (September 29 – October 1)                                                                                                       |
| 1 October  | Routes and Dosage Forms of Parenteral Therapy                                                                                           |
| 6 October  | USP <797>                                                                                                                                |
|            | Lab 4 (October 6 – 8)                                                                                                                   |
| 8 October  | Exam 1                                                                                                                                  |
| 13 October | USP <797> continued                                                                                                                      |
|            | Lab 5 (Mock Graded Product: October 13 – 15)                                                                                             |
| 15 October | Handling Anti-neoplastic and Chemotherapeutic Agents \  
**James P. Wilson, PharmD, PhD**           |
20 October  (continued)
Lab 6 (Mid-Term Graded Product: October 20 – 22)

22 October  Fluids and Electrolytes

27 October  (continued)
Lab 7 (Media Fill, Chemo: October 27 – 29)

29 October  Total Parenteral Nutrition

3 November  Home Health Care
Ernie Faucher, AMD Healthcare

Lab 8 (Pre-Final Graded Product: November 3 – 5)

5 November  Medication Errors/Patient Safety
*James P. Wilson, PharmD, PhD*

10 November  TSBP Update
Ben Santana, RPh
Chief of Compliance
Texas State Board of Pharmacy

Lab 9 (Final Product: November 10 – 12)

12 November  Exam 2

17 November  Exam review and course evaluation
(Letters of completion will be passed out at conclusion of review and evaluations. Letters are required for internships during the P4 year in which sterile compounding is involved.)
<table>
<thead>
<tr>
<th>Lab</th>
<th>Week of</th>
<th>TOPICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>14 Sept</td>
<td>Introduction, orientation to lab procedures and policies, hand washing, hood cleaning, use of syringes and needles</td>
</tr>
<tr>
<td>2</td>
<td>21 Sept</td>
<td>Ampules, filter needles and straws, use of syringes and needles</td>
</tr>
<tr>
<td>3</td>
<td>28 Sept</td>
<td>Fractional saline, mEq, assorted products</td>
</tr>
<tr>
<td>4</td>
<td>5 Oct</td>
<td>Powder reconstitution, use of references, fractional saline</td>
</tr>
<tr>
<td>5</td>
<td>12 Oct</td>
<td>Powder reconstitution, use of references, assorted products <strong>Mock graded product</strong></td>
</tr>
<tr>
<td>6</td>
<td>19 Oct</td>
<td>Complex infusion rates, compatibility and stability, assorted products, environmental testing <strong>Graded product (Mid-Term)</strong></td>
</tr>
<tr>
<td>7</td>
<td>26 Oct</td>
<td>Cytotoxics, media fill, isolator <strong>Graded product (Media Fill)</strong></td>
</tr>
<tr>
<td>8</td>
<td>2 Nov</td>
<td>Complex infusion rates, compatibility and stability, assorted products <strong>Graded product (Pre-Final)</strong></td>
</tr>
<tr>
<td>9</td>
<td>9 Nov</td>
<td><strong>Graded product (Final Product)</strong></td>
</tr>
<tr>
<td>10</td>
<td>16 Nov</td>
<td>Final examination product(s) retesting, if necessary</td>
</tr>
</tbody>
</table>