

Intravenous Admixture and Sterile Compounding (PHRA 1345 1B1)

CREDIT

semester credit hours (3 hours lecture and lab)

MODE OF INSTRUCTION

Online Lecture

Face to Face Lab

PREREQUISITE/CO-REQUISITE:

Complete the TSI Assessment Tests with 343/Mathematics, 347/Reading, and 357/4/Writing



**LAMAR INSTITUTE
OF TECHNOLOGY**

Online Weekly	Chapter Readings	Due Dates	Assignment Location
1 8/24/26	Syllabus Student documents		Handouts / Blackboard
2 8/31/26	Chapters 1 & 2	Sunday, 10/11/26	Chapter Assignments
3 9/7/26	Chapters 3 & 4	Tuesday, 10/11/26	Chapter Assignments
4 9/14/26	Chapters 5 & 6	Tuesday, 10/11/26	Chapter Assignments
5 9/21/26	Chapter 7	Tuesday, 10/11/26	Chapter Assignments
6 9/28/26	Chapter 8	Tuesday, 10/11/26	Chapter Assignments
7 10/5/26	Chapter 9	Tuesday, 10/11/26	Chapter Assignments
8 10/12/26	Midterm Exam Chaps. 1-9	Wednesday, 11/29/26	Blackboard

9 10/19/26	Chapter 10	Sunday, 11/29/26	Chapter Assignments
10 10/26/26	Chapter 11	Sunday, 11/29/26	Chapter Assignments
11 11/2/26	Chapter 12	Sunday, 11/29/26	Chapter Assignments
12 11/9/26	Chapter 13	Sunday, 11/29/26	Chapter Assignments
13 11/16/26	Chapter 14	Sunday, 11/29/26	Chapter Assignments
14 11/22/26	Chapter 15 & Chapter 16	Sunday, 11/29/26	Chapter Assignments
16 5/6/26	Final Exam	Sunday, 12/7/26	Blackboard

Weekly Lab	Lab	Due Dates	Assignment Location
1 8/24/26	Syllabus Student documents		Handouts / Blackboard
2 8/31/26	Lab 40: Aseptic Handwashing	Monday 8/31/26	Handouts / Blackboard
3 9/7/26	Lab 40: Aseptic Handwashing	Monday 9/7/26	Handouts / Blackboard
4 9/14/26	Lab 41: Hood Cleaning	Monday 9/14/26	Handouts / Blackboard
5 9/21/26	Lab 41: Hood Cleaning	Monday 9/21/26	Handouts / Blackboard
5 9/28/26	Midterm Study Session	Monday 9/28/26	Handouts / Blackboard
6 10/5/26	Mid-Term Lab Exam (Weeks 1-6)	Monday 10/5/26	Handouts / Blackboard
7 10/12/26	Lab 42: Preparing Large Volume Parenteral		

8 10/19/26	Lab 42: Preparing Large Volume Parenteral		
10 10/26/26	Lab 43: Preparing Small Parenteral	Monday 10/26/26	Handouts / Blackboard
11 11/2/26	Study Session Final Exam	Monday 11/2/26	Handouts / Blackboard
12 11/9/26	Lab 45: Using Ampules	Monday 11/9/26	Handouts / Blackboard
13 11/16/26	Lab 46: Control Substance Preparation	Monday 11/16/26	Handouts / Blackboard
14 11/23/26	Lab 47: Pediatric Preparation	Monday 11/23/26	Handouts / Blackboard
15 11/30/26	Lab 48: Parenteral Nutrition Preparation & Lab 46: Compounding Chemotherapy Drugs	Monday 11/30/26	Handouts / Blackboard
16 5/1/26	Lab Final Exam		

INSTRUCTOR CONTACT INFORMATION

Instructor: Dr. Coya Garrett, DHA, M.Ed., BSW, LCDC-I, CPhT-T
Email: cagarrett@lit.edu
Office Phone: 409-247-4868
Office Location: WAHTC – Room 329
Office Hours: By appt in Starfish

REQUIRED TEXTBOOK AND MATERIALS

- Sterile Compounding and Aseptic Technique: Concepts, Training, and Assessment for Pharmacy Technician- Text with Student Resources DVD (optional). ISBN 978-0-76384-083-9
- Any other materials required will be discussed by the Instructor throughout the course.

Assessment Requirements for Continuing Education Credit

Submission of Required Paperwork:

Student Registration Form
Documentation of Training Hours Form
Online Evaluation of CPE Activity

Midterm Exam - A score of 75% (or higher) is required to receive a passing grade

Midterm Lab Exam - A score of 75% (or higher) is required to receive a passing grade

Final Exam - A score of 75% (or higher) is required to receive a passing grade

Final Lab Exam - A score of 75% (or higher) is required to receive a passing grade

Competency Assessments (9) – 90% (or higher) compliance to basic aseptic technique principals

Homework Assignments/Quizzes/Etc. A score of 75% (or higher) is required to receive a passing grade

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- | | |
|------------------------|-----|
| 1. Midterm/Final Exam | 30% |
| 2. Exams | 25% |
| 3. Homework | 20% |
| 4. Lab & Participation | 25% |

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

ATTENDANCE POLICY

Student “attendance” in online courses will be defined as active participation in the course as described in the individual course syllabus. Online courses will, at a minimum have weekly mechanisms for student participation, which can be documented by any or all of the following methods: student tracking records in Blackboard; submission/completion of assignments; and communication with the instructor. Students who fail to maintain active participation in an online course as defined in the course syllabus will be processed in accordance with the College’s current attendance policy.

Drop Policy

If you wish to drop a course, the student is responsible for initiating and dropping the course. If you stop logging-in to the course and do not complete the course drop process, then you will earn an “F” grade for the course.

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or Wi-Fi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles’ Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or My LIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

- Students must provide their textbooks, writing instruments, and other necessary supplies for classes.
- Students must respect one another and all the faculty.
- Internet Usage – Students are expected to use proper net etiquette while participating in course emails, assignment submissions, and online discussions.

- No cheating of any kind will be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result in expulsion from LIT.
- All exams will be taken on the scheduled dates. If a test is missed due to an emergency situation, the student will have one week to make it up; otherwise a grade of “0” will be assigned. The instructor MUST be contacted to receive prior approval to take the exam late.
- All assignments are due when stated with no exceptions unless proper documentation is provided.
- Students are expected to follow the Lamar Institute of Technology Code of Conduct and Disciplinary Policy.
- The instructor will respond to e-mail and voice mail communication within 24 hours Monday through Friday. Assignment grades will be published within 1 week.

SCAT Student Instructions

Effective January 1, 2013, all ACPE accredited continuing education is awarded and tracked by the National Association of Boards of Pharmacy. This system, called *CPE Monitor*, will be a repository where CPE providers will enter identification data provided by CE attendees. ACPE will authenticate the identity of the CE attendee, and validate the CPE activity information. ACPE will electronically forward CE information to NAPB who will upload the information into individual E-profiles. Pharmacists, technicians, and state boards of pharmacy will then access this information electronically via a secure password. The only way that you will be able to access proof of your CE credits will be through the *CPE Monitor* system. You **MUST** create your NABP ePID and eProfile and provide that information, along with your date of birth (month/day) to the CPE administrator in order to be awarded CE credit for this course.

To earn ACPE Accredited CE in Sterile Compounding and Aseptic Technique (i.e. IV Certification) you must complete the following:

1. If you haven't already done so, create your NABP ePID number.

Go to the NABP website at <https://nabp.pharmacy/programs/cpe-monitor/>

- Click on "Log In To CPE Monitor"
- Click on "Individual" or "Business" customers
- Click on "Create Login"

The statement of CE credit for this course will be provided via the CPE Monitor system. In order to receive proof of CE credit for the SCAT course, your students will need to provide us with their NABP ePID and their date of birth on the student information form. If you have any questions about creating the NABP ePID and e-Profile, please contact NABP customer service at 847-391-4406, or at nabp.pharmacy/help/.

2. Fill out the Online Student Registration Form. Obtain the Online Student Registration Form and/or link from your instructor. You **MUST** fill the online form out completely. Also, please use proper grammar and punctuation. Your entry will be utilized to process your completion documentation. All fields are required for the CPE office to register you for your course and to also process your completion documents. You will not receive your ACPE CPE credits unless you have provided your NABP ePID number, and your date of birth. Upon completion of this online form, you will receive an email from Google Forms. Please retain this email for the duration of the course. If you need to make any additions/changes to your record, please use the link. Do not complete multiple forms to make changes.

3. Courses must be paid in full prior to the first day of the course. Please follow the directions provided by your instructor to register and pay for the course. See the ACC policy on reimbursement for withdrawal or for courses canceled due to low enrollment on the course announcement, located at <http://www.austincc.edu>

4. Purchase the textbook. Check with your instructor to see if the textbook is available from your campus bookstore. If not, please order the book from the Paradigm website at: <https://www.paradigmeducation.com/product/sterile-compounding-and-aseptic-technique-second-edition>.

Be sure to order a new textbook with Cirrus online (not a used copy), it is the only way that you will be able to access online resources and training videos that are a required component of this course. The textbook for this course is REQUIRED.

Textbook: *Sterile Compounding and Aseptic Technique, 2nd edition, by Lisa McCartney & Brenda Jensen* - Text with online resources via Cirrus

5. Track your coursework on the Documentation of Training Hours Form. Your instructor will provide you with the Documentation of Training Hours Form. Fill out the identifying information at the top of the form. As you progress through the course, fill in the number of minutes that you spend working on each chapter.

Didactic Education:

- This portion is to be completed by the student.
- Record the number of minutes that you spend reading each chapter, the number of minutes that you spend answering the homework questions, completing quizzes, or studying for exams.
- Add all the chapter minutes in each column separately in the noted boxes (see below). Add column #1 and #2 to determine the total number of minutes spent for your didactic education. Determine the number of hours you spent by taking the total minutes and divide the number 60.
NOTE: The amount of time spent on the didactic education portion of this course should total a minimum of 12 hours.

Example:

Total Minutes Column #1:		Total Minutes Column #2:	
Total Minutes - Lecture, Reading, Homework, & Videos (Add columns #1 & #2):			min.
Total number of HOURS - Lecture, Reading, Homework, & Videos (# mins/60) <i>Documentation of Lecture, Reading, Homework, & Videos must total ≥ 12 hours</i>			Hours

Dedicated Testing Times:

- This portion is prefilled.

Experiential Training & Competency Assessment:

- This portion is to be completed by the instructor.
- Please refer to your instructor for expectations and instructions.
- You will be required to meet or exceed expectations for all competency assessments.

The Sterile Compounding and Aseptic Technique Course requires a minimum of 12 hours of didactic coursework, eight (8) hours of dedicated testing time, and a minimum of 20 hours of hands-on training for a total of 40 hours. Your Documentation of Training Hours Form should reflect a minimum of 40 hours of total training for the course. Your instructor must validate all of your training hours by signing off on your form and submitting it to the CPE provider at the end of the course. It is your responsibility to track your didactic hours and to submit your Documentation of Training Hours Form to your instructor for further completion at the end of the course. Submission of the Documentation of Training Hours Form is a requirement.

6. Complete the Didactic Portion of the Course. Complete all chapters of the textbook, including any reading, quizzes, or homework assigned by your instructor. Your instructor may assign additional readings, PowerPoint lecture materials, or other coursework to be completed on Blackboard or via another delivery method. In addition, you will be required to watch the training videos on the Cirrus online platform or as directed by your instructor. Refer to the course schedule provided by your instructor for course due dates.

7. Pass two (2) exams over didactic content and two (2) exams over lab content with a score of 75% or higher. The four exams cover information from your textbook, including the

procedural labs from each chapter. Information will also be gleaned from laboratory activities and training, as well as directly from USP<797>.

- 8. Complete the required hands-on training in a pharmacy cleanroom, segregated compounding area (SCA), or IV lab.** Your instructor will provide you with additional information regarding the mandatory training sessions.
- 9. Complete nine Competency Assessments.** The competency assessment for each of the nine procedural labs must be completed under direct observation of your instructor, with 90% or higher compliance to basic aseptic technique principles as defined in USP<797>.
- 10. Return the Documentation of Training Hours Form to your instructor.** The Documentation of Training Hours Form must be completed and returned to your instructor upon completion of the course. You must have tracked and determined that you have met the minimum of 12 hours of didactic training.
- 11. Complete the Online Evaluation of CPE Activity.** Your instructor will provide you with the link for the Online Evaluation of CPE Activity; you must complete this online form. You will not receive your ACPE CPE credits otherwise.

Upon successful completion of this course, outlined in the steps above, your instructor will submit your exams, Competency Assessments, and Documentation of Training Hours Form to the CPE provider - Austin Community College, Pharmacy Technician Program for review. If all paperwork is complete and in order, the student will receive the following:

- A nationally recognized certificate in *Sterile Compounding and Aseptic Technique* from the Austin Community College – Pharmacy Technician Program – Provider of CPE ACPE accredited continuing education. The certificate will be emailed, within 30 days of receipt of final paperwork from the instructor. Completion documents will be sent to the student's email address that was provided on the Online Student Registration Form.
- ACPE accredited continuing education units (CEUs) will be uploaded into CPE Monitor within 60 days of receipt of the final paperwork. ACPE credit will only be uploaded into CPE monitor if you provide your NABP ePID number and date of birth (month/day) on your Online Student Registration Form.