



**PHAR 1030 – Principles of Sterile Medication Preparation  
COURSE SYLLABUS  
Spring Semester 2018**

**COURSE INFORMATION**

Credit Hours/Minutes: 4 Credit Hours/4500 Minutes

Class Location: Room #737/#720 — Gillis Building

Class Meets: Thursday 9:00AM—3:15PM

Course Reference Number (CRN): 40201

**INSTRUCTOR CONTACT INFORMATION**

Instructor Name: Matt Brown, CPhT

Office Location: Room #722 — Gillis Building

Office Hours: Monday/Wednesday: 9:00—10:00; 3:00—6:00; or By Appointment

Email Address: [Matt Brown \(mbrown@southeasterntech.edu\)](mailto:mbrown@southeasterntech.edu)

Phone: 912-538-3192

Fax Number: 912-538-3106

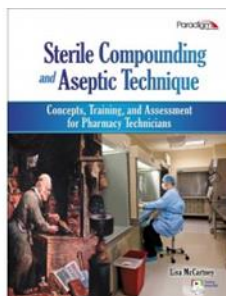
Tutoring Hours (if applicable): By Appointment

**SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK**

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Handbook \(http://www.southeasterntech.edu/student-affairs/catalog-handbook.php\)](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php).

**REQUIRED TEXT**

Sterile Compounding and Aseptic Technique, 1st Edition, By McCartney, Paradigm Publishing



## REQUIRED SUPPLIES & SOFTWARE

Paper, Pens/Pencils, Folder, Computer Access, and a Basic Calculator

## COURSE DESCRIPTION

This course introduces the student to principles of receiving, storing, and dispensing medications. Topics include: purchasing, packaging, and labeling drugs; pharmacy policies and procedures; documentation; inventory and filing systems; compounding; storage and control; pharmacy equipment; and health care organizational structure. This course provides laboratory and clinical practice.

## MAJOR COURSE COMPETENCIES

1. Aseptic and Sterile Techniques
2. Parenteral Admixtures
3. Hyperalimentation
4. Chemotherapy
5. Filtering
6. Disinfecting
7. Contamination
8. Ophthalmic Preparations
9. Infection Control
10. Quality Control

## PREREQUISITE(S): ALL REQUIRED

1. PHAR 1000 - Pharmaceutical Calculations
2. PHAR 1010 - Pharmacy Technology Fundamentals

## COURSE OUTLINE

### Aseptic and Sterile Techniques

Order	Description	Learning Domain	Level of Learning
1	Describe microbial growth and transmission; origin, pharmacologic effect, and prevention of pyrogens; and heat sterilization and cold sterilization.	Cognitive	Knowledge
2	List possibilities for contamination of an injectable solution during its preparation and for each possibility a precaution that would prevent the contamination.	Cognitive	Knowledge
3	Describe particulate matter inspection and contamination monitoring.	Cognitive	Knowledge
4	Explain visual inspection of parenteral solutions.	Cognitive	Comprehension
5	Describe visual and chemical incompatibilities, pH and concentration effects, and reference sources.	Cognitive	Knowledge
6	Discuss the use of a syringe and needle for aseptic withdrawal of the contents of a rubber-capped vial and a glass ampoule.	Cognitive	Comprehension
7	Define sterility.	Cognitive	Knowledge
8	Describe the occasions when hand washing is required.	Cognitive	Knowledge
9	Discuss aseptic reconstitution of an antibiotic injection.	Cognitive	Comprehension
10	List preparations that may be heat-sterilized.	Cognitive	Knowledge
11	Describe parenteral routes of administration (e.g., rationale, precautions and problems, routes and methods of administration).	Cognitive	Knowledge

Order	Description	Learning Domain	Level of Learning
12	Describe the equipment and systems used in parenteral administration.	Cognitive	Knowledge
13	Describe the equipment used to prepare parenteral admixtures.	Cognitive	Knowledge
14	Explain aseptic compounding techniques.	Cognitive	Comprehension
15	Discuss labeling and recordkeeping.	Cognitive	Comprehension

#### Parenteral Admixtures

Order	Description	Learning Domain	Level of Learning
1	Discuss types of IV fluids and their uses.	Cognitive	Comprehension
2	Discuss common parenteral additives.	Cognitive	Comprehension
3	Discuss techniques and procedures for preparing parenteral admixtures, including label preparation and control records completion.	Cognitive	Comprehension
4	Discuss the equipment and systems used in parenteral administration.	Cognitive	Comprehension
5	Describe equipment used to prepare parenteral admixtures.	Cognitive	Knowledge
6	Discuss visual and chemical incompatibilities, pH and concentration effects, and reference sources.	Cognitive	Comprehension
7	Discuss particulate matter inspection and contamination monitoring.	Cognitive	Comprehension
8	Discuss the selection and preparation of containers and closures for parenteral admixtures.	Cognitive	Comprehension
9	Discuss proper selection of each parenteral admixture ingredient.	Cognitive	Comprehension
10	Discuss the correct procedure for mixing and preparing parenteral admixture.	Cognitive	Comprehension
11	Discuss correct selection, assembly, cleaning, use, and storage of necessary equipment.	Cognitive	Comprehension
12	Discuss pharmaceutical solutes and basic solution theory.	Cognitive	Comprehension
13	Discuss parenteral routes of administration.	Cognitive	Comprehension
14	Discuss the labeling requirement for parenteral admixtures.	Cognitive	Comprehension
15	Discuss proper parenteral admixture handling and storage.	Cognitive	Comprehension

#### Hyperalimentation

Order	Description	Learning Domain	Level of Learning
1	Discuss the basic principles of and reasons for nutritional therapy.	Cognitive	Comprehension
2	Discuss basic hyperalimentation products and their uses.	Cognitive	Comprehension
3	Discuss the correct techniques and procedures for preparing at least three hyperalimentation admixtures, including proper label preparation and appropriate recordings and storage requirements.	Cognitive	Comprehension
4	Discuss the equipment used in preparing hyperalimentation.	Cognitive	Comprehension

Order	Description	Learning Domain	Level of Learning
5	Discuss incompatibilities (visual and chemical, pH and concentration effects, and reference sources).	Cognitive	Comprehension
6	Discuss the importance of quality control and contamination control in relationship to the hyperalimentation admixture.	Cognitive	Comprehension

### Chemotherapy

Order	Description	Learning Domain	Level of Learning
1	Discuss the various classifications of chemotherapy drugs.	Cognitive	Comprehension
2	Discuss the basic principles and the various uses of chemotherapy.	Cognitive	Comprehension
3	Discuss the risk-benefit ratios.	Cognitive	Comprehension
4	Discuss patient variables and drug therapy (e.g., age, weight, pathological conditions, and genetic factors).	Cognitive	Comprehension
5	Discuss practical safety precautions for handling cytotoxic agents in hospital pharmacies, including impact on hospital pharmacy personnel and available protective equipment.	Cognitive	Comprehension
6	Discuss in detail a policy for safely handling cytotoxic agents from receipt to disposal.	Cognitive	Comprehension
7	Discuss quality control (particulate matter inspection and contamination monitoring).	Cognitive	Comprehension
8	Discuss the preparation of cytotoxic agents.	Cognitive	Comprehension

### Filtering

Order	Description	Learning Domain	Level of Learning
1	Define the filtration process.	Cognitive	Knowledge
2	Identify and discuss various filtration devices.	Cognitive	Knowledge
3	Identify and describe at least five different filtration devices and their uses.	Cognitive	Knowledge
4	Discuss various filtration requirements for specified drugs or use situations.	Cognitive	Comprehension

### Disinfecting

Order	Description	Learning Domain	Level of Learning
1	Discuss microbial growth and transmission.	Cognitive	Comprehension
2	Discuss origin, pharmacologic effect, and pyrogen prevention.	Cognitive	Comprehension
3	Discuss sterilization vs disinfection and the difference between heat and "cold" sterilization.	Cognitive	Comprehension
4	Discuss two major disinfecting agents.	Cognitive	Comprehension
5	Discuss hand washing techniques and methods of cleaning various work surfaces and equipment.	Cognitive	Comprehension

### Contamination

Order	Description	Learning Domain	Level of Learning
1	List at least five different possibilities for contamination of an injectable solution during its preparation and for each possibility a precaution that would prevent the contamination.	Cognitive	Knowledge
2	Discuss the proper technique for using a syringe and needle for aseptic withdrawal of the contents of a rubber-capped vial and a glass ampoule to prevent contamination.	Cognitive	Comprehension
3	Discuss the proper technique for aseptic reconstitution of an antibiotic injection to prevent contamination.	Cognitive	Comprehension
4	Discuss storage requirements for drugs and chemicals to prevent contamination.	Cognitive	Comprehension

### Ophthalmic Preparations

Order	Description	Learning Domain	Level of Learning
1	Define and discuss types of ophthalmic preparations and their uses (e.g., solutions, suspensions, and ointments).	Cognitive	Knowledge
2	Discuss the general preparation and filtration process of eye medications and those used specifically in surgical procedures (e.g., local injections, etc.).	Cognitive	Comprehension
3	Discuss and describe the local administration of eye medications.	Cognitive	Comprehension

### Infection Control

Order	Description	Learning Domain	Level of Learning
1	Describe methods of bacterial and viral infection transmission and how to prevent spreading infections in a health care environment.	Cognitive	Knowledge

### Quality Control

#### GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

#### STUDENT REQUIREMENTS

Students are expected to complete all assigned material by the given due date. Students will also be required to complete hands-on demonstrations needed to function properly in the pharmacy field. Students are responsible for all policies and procedures listed within the student catalog / program handbook. Quizzes are subject to be given at any time over any assigned material. Students are responsible for keeping up with their grades. Do not ask instructor for grades during the semester.

## **ATTENDANCE GUIDELINES**

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" in a course.

## **ADDITIONAL ATTENDANCE PROVISIONS**

### ***Health Sciences***

Requirements for instructional hours within Health Science programs reflect the rules of respective licensure boards and/or accrediting agencies. Therefore, these programs have stringent attendance policies. Each program's attendance policy is published in the program's handbook and/or syllabus, which specify the number of allowable absences. All provisions for required make-up work in the classroom or clinical experiences are at the discretion of the instructor.

Attendance is counted from the first scheduled class meeting of each semester. To receive credit for a course a student must attend at least 90% of the scheduled instructional time. Time and/or work missed due to tardiness or absences must be made up at the convenience of the instructor. Any student attending less than the required scheduled instructional time (90%) may be dropped from the course as stated below in the Withdrawal Procedure.

Tardy means arriving after the scheduled time for instruction to begin. Early departure means leaving before the end of the scheduled time. Three (3) tardies or early departures equal one (1) absence for the course. A tardy will be issued if a student has missed less than 20% of instructional class time. An automatic absence will be issued if the student misses greater than 20% of instructional class time. This averages out to 10 minutes per hour. For example, a student taking a class that meets from 9:00-11:30 will be considered absent if he/she is not in class by 9:30.

The didactic portion of the class will meet once weekly for 15 weeks. A student can miss a maximum of 2 class meetings. Students missing more than 2 class meetings will be dropped for exceeding the attendance policy.

## **SPECIAL NEEDS**

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, to coordinate reasonable accommodations.

## **SPECIFIC ABSENCES**

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

## **PREGNANCY**

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126.

## **WITHDRAWAL PROCEDURE**

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must speak with a representative of the Financial Aid Office to determine any financial penalties that may be accessed due to the withdrawal. All grades, including grades of 'W', will count in attempted hour calculations for the purpose of Financial Aid.

**Remember** - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

## **MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC.)**

Exams missed for any reason will be made up at the convenience of the instructor. Any quizzes missed due to a student absence generally will not be allowed to be made up. If a lab assignment is missed, the student has the sole responsibility for arranging make-up lab time at the instructor's convenience.

The instructor may allow students to make up any assignments that were missed due to absence if the instructor is notified in advance of the absence, or if any unforeseen circumstances arise that cause the student to be absent from class. These situations will be dealt with on a case by case basis. The student is responsible for notifying the instructor of any absence, as well as supplying any available documentation concerning the absence in order for the instructor to consider allowing the assignments to be made up.

## **ACADEMIC DISHONESTY POLICY**

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Student Handbook.

## **PROCEDURE FOR ACADEMIC MISCONDUCT**

The procedure for dealing with academic misconduct and dishonesty is as follows:

### **1. First Offense**

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

**2. Second Offense**

Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

**3. Third Offense**

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

**STATEMENT OF NON-DISCRIMINATION**

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member or citizenship status (except in those special circumstances permitted or mandated by law). This school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<p><b>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</b></p>	<p><b>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</b></p>
<p>Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1<sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 Email: <a href="mailto:hthomas@southeasterntech.edu">Helen Thomas</a> <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a></p>	<p>Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1<sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 Email: <a href="mailto:bwilcox@southeasterntech.edu">Blythe Wilcox</a> <a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a></p>

**ACCESSIBILITY STATEMENT**

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

**GRIEVANCE PROCEDURES**

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.



## ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

## TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

*The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.*

## GRADING POLICY

Assessment/Assignment	Percentage
Exam Average	30%
Quiz Average	20%
Labs/Assignments	25%
Final Exam	25%

## GRADING SCALE

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

## PHAR 1030 – Principles of Sterile Medication Preparation Spring Semester 2018 Lesson Plan

Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
<b>Week #1</b>				
1/11	Chapters 1—2	Intro to Course / Syllabus / Textbooks  Chapter 1: Sterile Compounding as a Pharmacy Technician  Chapter 2: The Sterile Compounding Environment	Read and Review Chapter 1 Chapter 1 Concepts: PowerPoint Chapter 1 Training: Lab Chapter 1 Assessments/Assignments  Read and Review Chapter 2 Chapter 2 Concepts: PowerPoint Chapter 2 Training: Lab Chapter 2 Assessments/Assignments  Prior to Next Class: — Review Chapters 1—2 —	1—10 A ; C
<b>Week #2</b>				
1/18	Quiz #1  Chapters 2—3	Quiz #1  Chapter 2: The Sterile Compounding Environment  Chapter 3: Sterile Compounding Supplies	Quiz #1  Review Chapter 2 Chapter 2 Concepts: PowerPoint Chapter 2 Training: Lab Chapter 2 Assessments/Assignments  Read and Review Chapter 3 Chapter 3 Concepts: PowerPoint Chapter 3 Training: Lab Chapter 3 Assessments/Assignments  Prior to Next Class: — Review Chapters 1—3 —	1—10 A ; C
<b>Week #3</b>				
1/25	Exam #1  Chapters 4—5	Exam #1: Chapters 1—3  Chapter 4: Medication Orders and Labeling  Chapter 5: Calculations for Sterile Compounding	Exam #1: Chapters 1—3  Read and Review Chapter 4 Chapter 4 Concepts: PowerPoint Chapter 4 Training: Lab Chapter 4 Assessments/Assignments  Read and Review Chapter 5 Chapter 5 Concepts: PowerPoint Chapter 5 Training: Lab Chapter 5 Assessments/Assignments  Prior to Next Class: — Review Chapters 4—5 —	1—10 A ; C

Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
<b>Week #4</b>				
2/1	Exam #2  Chapter 6	Exam #2: Chapters 4—5  Chapter 6: Aseptic Garbing, Hand Washing, and Gloving	Exam #2: Chapters 4—5  Review Chapters 4—5  Read and Review Chapter 6 Chapter 6 Concepts: PowerPoint Chapter 6 Training: Lab Chapter 6 Assessments/Assignments  Prior to Next Class: — Review Chapter 6 — — Watch Chapter 6 Demonstration Video —	1—10 A ; C
<b>Week #5</b>				
2/8	Quiz #2  Chapter 6	Quiz #2  Chapter 6: Aseptic Garbing, Hand Washing, and Gloving	Quiz #2  Review Chapter 6 Chapter 6 Concepts: PowerPoint Chapter 6 Training: Lab Chapter 6 Assessments/Assignments  Prior to Next Class: — Read and Review Chapter 7 — — Watch Chapter 7 Demonstration Video —	1—10 A ; C
<b>Week #6</b>				
2/15	Quiz #3  Chapter 7	Quiz #3  Chapter 7: Cleaning the Horizontal Laminar Airflow Hood	Quiz #3  Review Chapter 7 Chapter 7 Concepts: PowerPoint Chapter 7 Training: Lab Chapter 7 Assessments/Assignments  Prior to Next Class: — Review Chapters 6—7 —	1—10 A ; C
<b>Week #7</b>				
2/22	Exam #3:  Chapter 8	Exam #3: Chapters 6—7  Chapter 8: Large-Volume Parenteral Preparations	Exam #3: Chapters 6—7  Read and Review Chapter 8 Chapter 8 Concepts: PowerPoint Chapter 8 Training: Lab Chapter 8 Assessments/Assignments Watch Chapter 8 Demonstration Video  Prior to Next Class: — Read and Review Chapter 9 — — Watch Chapter 9 Demonstration Video —	1-2 ; 5-7 ; 10 A—C

Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
<b>Week #8</b>				
3/1	Quiz #4  Chapter 9	Quiz #4  Chapter 9: Small-Volume Parenteral Preparations	Quiz #4  Review Chapter 9 Chapter 9 Concepts: PowerPoint Chapter 9 Training: Lab Chapter 9 Assessments/Assignments  Prior to Next Class: — Read and Review Chapter 10 — — Watch Chapter 10 Demonstration Video —	1-2 ; 5-7 ; 10 A—C
<b>Week #9</b>				
3/8	Quiz #5  Chapter 10	Quiz #5  Chapter 10: Ampule-Based Preparations	Quiz #5  Review Chapter 10 Chapter 10 Concepts: PowerPoint Chapter 10 Training: Lab Chapter 10 Assessments/Assignments  Prior to Next Class: — Review Chapters 8—10 —	1-2 ; 5-7 ; 10 A—C
<b>Week #10</b>				
3/15	No Class	No Class	Prior to Next Class: — Review Chapters 8—10 —	
<b>Week #11</b>				
3/22	Exam #4  Chapter 11	Exam #4: Chapters 8—10  Chapter 11: Narcotic Preparations	Exam #4: Chapters 8—10  Read and Review Chapter 11 Chapter 11 Concepts: PowerPoint Chapter 11 Training: Lab Chapter 11 Assessments/Assignments Watch Chapter 11 Demonstration Video  Prior to Next Class: — Read and Review Chapter 12 — — Watch Chapter 12 Demonstration Video —	1-2 ; 5-7 ; 10 A—C
<b>Week #12</b>				
3/29	Chapter 12	Chapter 12: Pediatric Preparations	Review Chapter 12 Chapter 12 Concepts: PowerPoint Chapter 12 Training: Lab Chapter 12 Assessments/Assignments  Prior to Next Class: — Review Chapters 11—12 —	1-2 ; 5-7 ; 10 A—C
<b>Week #13</b>				
4/5	No Class	Spring Break	Prior to Next Class: — Review Chapters 11—12 —	

Date	Chapter/Lesson	Content	Assignments & Exams Due Dates	Competency Area
<b>Week #14</b>				
4/12	Exam #5  Chapter 13	Exam #5: Chapters 11—12  Chapter 13: Total Parenteral Nutrition	Exam #5: Chapters 11—12  Read and Review Chapter 13 Chapter 13 Concepts: PowerPoint Chapter 13 Training: Lab Chapter 13 Assessments/Assignments Watch Chapter 13 Demonstration Video  Prior to Next Class: — Read and Review Chapter 14 — — Watch Chapter 14 Demonstration Video —	1-3 ; 5-7 ; 10 A—C
<b>Week #15</b>				
4/19	Quiz #6  Chapter 14	Quiz #6  Chapter 14: Chemotherapy Products and Procedures	Quiz #6  Review Chapter 14 Chapter 14 Concepts: PowerPoint Chapter 14 Training: Lab Chapter 14 Assessments/Assignments  Prior to Next Class: — Review Chapters 13—14 —	1-2 ; 4-7 ; 10 A—C
<b>Week #16</b>				
4/26	Exam #6	Exam #6: Chapters 13—14	Exam #6: Chapters 13—14  Prior to Next Class: — Study for Final Exam —	1-2 ; 4-7 ; 10 A—C
<b>Week #17</b>				
5/3	Final Exam	Final Exam	Final Exam	1—10 A—C

**COMPETENCY AREAS: (WILL VARY FOR EACH COURSE/TAKEN FROM STATE STANDARDS)**

1. Aseptic and Sterile Techniques
2. Parenteral Admixtures
3. Hyperalimentation
4. Chemotherapy
5. Filtering
6. Disinfecting
7. Contamination
8. Ophthalmic Preparations
9. Infection Control
10. Quality Control

**GENERAL CORE EDUCATIONAL COMPETENCIES:**

- A. The ability to utilize standard written English.
- B. The ability to solve practical mathematical problems.
- C. The ability to read, analyze, and interpret information.